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Baltimore, Mayor,

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MAYOR'S MESSAGE,

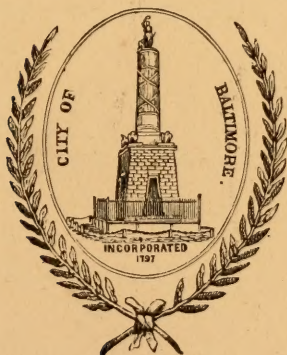
AND

Reports of the City Officers,

MADE TO THE

CITY COUNCIL OF BALTIMORE,

For the Year 1887.



BALTIMORE:

JOHN COX, "CITY PRINTER,"

Pratt Street and Spear's Wharf.

1888.

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BALTIMORE, January 1, 1888.

To the Honorable the Members of

the City Council of Baltimore:

GENTLEMEN :

This Message contains a statement of the financial condition of Baltimore on December 31st, 1887, a review of the operations of its several departments during the past year, and some suggestions in connection with the municipal government.

THE FINANCIAL CONDITION OF THE CORPORATION DECEMBER 31st, 1887.

Amount of funded debt

December 31st, 1887. \$35,377,176 15

Amount of guaranteed
debt, viz :

Endorsement

of Western

Md. R. Rd.

third mort-

gage bonds. \$875,000 00

Carr. for'd \$875,000 00 \$35,377,176 15

Bro't for'd \$875,000 00 \$35,377,176 15

Endorsement

of Union

Railroad

first mort-

gage bonds 117,000 00

\$992,000 00

Total funded and guar-
anteed debt.....

\$36,369,176 15

Of this amount interest
is provided or paid as
follows:

Baltimore & Ohio Rail-
road Company upon.. \$5,000,000 00

City Passenger Railroad
Companies..... 755,566 25

Water Board from in-
come..... 9,500,000 00

Union Railroad Com-
pany..... 117,000 00

Western Maryland Rail-
road Company..... 2,388,000 00

Overdue stock, no in-
terest allowed..... 6,927 96

Overdue Western Mary-
land bonds, no interest 3,290 00

17,770,784 21

Balance..... \$18,598,391 74

Carried forward.....

\$18 598,391 74

Brought forward.....		\$18,598,391 74
----------------------	--	-----------------

Productive Investments.

32,500 shares Baltimore and Ohio Railroad stock.....	\$3,250,000 00	
Value of sinking funds.	6,039,241 39	
550 shares Baltimore and Reisterstown Turnpike Company stock..	2,062 50	
137 shares Baltimore and Frederick Turnpike Company stock.....	456 66	
625 shares Baltimore and Yorktown Turnpike Company stock.....	3,125 00	
Real Estate annual rental.....	\$7,746 76	
Wharf property annual rental.....	38,000 00	
Market houses, annual rental.....	50,000 00	
		\$95,746 76
This provides interest upon.....	1,595,779 00	
		\$10,890,664 55
Balance of debt over available income producing securities.....		\$7,707,727 39

The funded and guaranteed debt on December 31, 1885, was \$36,733,246 57.

The increase of \$1,413,886.51 in the funded and guaranteed debt during the year 1887 is thus accounted for:

There were issued, by authorization of Ordinance No. 11, of 1886, in aid of the Western Maryland Railroad Co., city bonds bearing $3\frac{1}{4}$ interest per annum, and having forty years to run, amounting to	\$1,704,000 00
And by Ordinance No. 7, of 1886, authorizing the sale of \$200,000 of city bonds for the improvement of Jones' Falls, and bearing interest at the rate of $3\frac{65}{100}$ per cent. per annum, there was sold during the year, at a premium of \$5,051.50	135,000 00
And by Ordinance No. 115, of 1884, authorizing the issue of \$350,000 of city bonds for the completion of Harford Run sewer, interest at 4 per cent., due in 1904. Premium realized \$7,575.00	90,000 00
Western Maryland Railroad bonds and certificates, first and second mortgage, not yet presented for redemption . . .	3,290 00
Less	\$1,932,290 00
Consolidated 5 per cent. bonds redeemed	\$740 00
Carried forward	\$740 00
	<u>\$1,942,290 00</u>

Brought forward.....	\$740 00	\$1,942,290 00
One million 6 per cent. loan of 1886 redeemed.....	10,863 49	
Valley Railroad loan, 6 per cent. of 1886 redeemed...	6,800 00	
First mortgage bonds of the Western Maryland Rail- road Co. endorsed by the city.....	200,000 00	
Second mortgage bonds of the Western Maryland Railroad Co. endorsed by the city....	300,000 00	
		\$518,403 49
Net increase in funded and guaranteed debt as above.....		1,413,886 51
Balance of debt over available income pro- ducing securities De- cember 31, 1887.....		7,707,727 39
Balance of debt Decem- ber 31, 1886.....		5,828,875 16
Increase for year 1887.		\$1,878,852 23

This is accounted for as follows :

Increase in funded and guaranteed debt as hereinbefore shown..	\$1,413,886 51
32,500 shares Balti- more and Ohio Railroad stock, valued in 1886 at \$170 per share....	\$5,525,000 00
Carried forward...	\$5,525,000 00
	\$1,413,886 51

Brought forward..	\$5,525,000 00	\$1,413,886 51	
32,500 shares Balti- more and Ohio Railroad stock, valued in 1887 at par.....	3,250,000 00		
		2,275,000 00	
			3,688,886 51
Deduct sinking fund 1887.....	6,039,241 39		
Deduct sinking fund 1886.....	5,743,425 07		
		295,816 32	
Brought forward Western Maryland Railroad Com- pany paid in 1887 on.....	2,388,000 00		
Western Maryland Railroad Com- pany paid in 1886 on.....	884,000	1,504,000 00	
Overdue stock no in- terest in 1887.....		6,927 96	
Western Maryland Railroad bonds, no interest in 1887...		3,290 00	\$1,810,034 28
			\$1,878,852 23

Although the actual funded and guaranteed debt of the City is \$36,369,176.15, the taxpayers should ordinarily only be called upon to provide interest on \$13,746,968.18, of which \$6,039,241.29 being in the sinking fund, the City would pay interest thereon to itself. The amount, however, on which interest must

be provided, will be increased in 1888 to the extent of \$3,250,000, should there be no revenue derived from the Baltimore and Ohio Railroad Company.

The following table illustrates this statement :

Total funded and guaranteed debt.....	\$36,369,176	15
Of this amount interest is provided on as hereinbefore shown.....	17,770,784	21
Balance.....	18,598,391	94
Productive investments producing actual annual revenue (B. & O. R. R. stock is included) as heretofore shown	10,890,664	55
Balance.....	7,707,727	39
Amount of sinking fund upon which interest must be paid by taxation al- though paid to the City itself.....	6,039,241	29
	\$13,746,968	68
To which must be added if no revenue is derived in 1888 from the Baltimore and Ohio Railroad Stock.....	3,250,000	00
	\$16,996,968	68

In 1887 the amount of the debt on which interest had to be paid with the tax levy was \$12,140,058 61. This illustrates the increase of their burdens our taxpayers must contemplate, provided our 32,500 shares of Baltimore and Ohio Railroad stock should be non-productive in 1888. This Company has received much aid from the City, but we must not forget that for a long

while it returned a large annual revenue to the Treasury, thus greatly relieving taxpayers. Its usual dividend was passed in May last for the first time in many years. We hope and believe it will soon be resumed. This railroad is essentially a Baltimore enterprise, built with Baltimore capital when railroads were experiments, and the idea of crossing the mountains with steam seemed a wild flight of imagination. It has greatly added to our trade, wealth and prosperity. It has always been the pride of our city. Let us spare no effort to retain its complete control where it has always been, in the hands of our own citizens. It deserves forbearance and liberal treatment at all times from this community.

As will be seen by reference to the Register's report the following bonds of the City are due and payable in the year 1890 :

Consolidated 6 per cents.....	\$7,306,546 22
Public Park 6 per cents.....	555,566 25
Five million loan.....	5,000,000 00
Total .	\$12,862,112 47

The interest on this at 6 per cent. is \$771,726.74. If it was funded at four per cent. the city would save annually \$257,242.24. It could, therefore, by funding the 1890's at 4 per cent. issue in addition thereto \$6,431,056 00 of 4 per cent. bonds for such improvements as the growth of the city now almost demands, without subjecting the taxpayers to a heavier annual interest payment than that to which they are now sub-

jected, and it must be remembered that each year the increase of the taxable basis makes this interest charge lighter upon the individual taxpayer.

SINKING FUNDS.

The following table gives the value of the sinking funds held by the Commissioners of Finance for the redemption of the debt. This fund is invested in ground rents, the leases of which are held by the city, a ground rent the lease of which is held by the Western Maryland Railroad Company, and city stock. The interest on these securities is annually paid to the Commissioners of Finance and by them invested for the benefit of the sinking fund, which thus rapidly increases by compound interest. Another source of increase of the sinking funds is the provision of an ordinance passed in 1881, providing that all premiums realized on sale of city stock except for the Jones' Falls improvement shall go to the sinking fund :

Value of sinking funds December 31,	
1887.....	6,039,241 39
Value of sinking funds December 31,	
1886.....	5,743,425 07
Increase of sinking funds during the	
year 1887.....	\$295,816 32

The report of the Commissioners of Finance gives in detail the investments of the sinking funds :

RECEIPTS AND EXPENDITURES.

The report of the City Register will show the receipts of the city from collection of taxes and other sources applicable to the support of the municipal government for 1887, as follows :

RECEIPTS—ACTUAL INCOME.

From	City Collector,		
	levy of 1887...	\$3,131,741	17
"	City Collector,		
	levies of previ-		
	ous years.....	1,078,370	99
			\$4,210,112 16
"	public schools, tuitions, fees,		
	and J. F. Plummer.....	6,765	94
"	market houses, rent of stalls..	58,287	44
"	wharfage and rent of wharves..	33,560	96
"	general licenses.....	44,609	30
"	auction duties.....	7,431	16
"	Magistrates, Sheriff and Jail..	5,352	80
"	Health and Street Departments.	6,464	79
"	permits for sheds, signs, &c...	6,415	90
"	Inspector of gas-meters.....	3,905	05
"	Baltimore and Ohio Railroad		
	Company, dividend on stock.	130,000	00
"	City Commissioners' Depart-		
	ment.....	3,617	94
"	Bayview, Mount Hope, and		
	Spring Grove Asylums.....	6,748	46
"	conscience fund.....	150	00
"	aggregate of sundry small items	1,942	54
			\$4,525,364 44

The receipts for 1886 were 4,703,477.79, of which there was received from the City Collector from

Taxes from the levy of

1886..... 3,194,613 61

From levies of previous

years..... 1,059,851 65

4,254,465 26

This shows a falling off in revenue for 1887

of.....\$178,113 35

It must be remembered, however, that in 1886 the revenue derived from the Baltimore and Ohio Railroad was \$260,000, whereas, in 1887 it was \$130,000, and that the tax levy in 1886 was \$1.70, while in 1887 it was \$1.60. This shows that there was really a larger percentage of taxes collected in 1887 than in 1886. The collection of back taxes in 1887 was \$1,078,370.99, in 1886, \$1,059,851.65. The following table from the Register's report will show the actual expenses of the city government for the year 1887:

DISBURSEMENTS.—EXPENSES OF THE CITY GOVERNMENT.

Interest on the public debt.....	\$915,987 18
Expenses of the law courts.....	118,806 50
“ of the jail, magistrates, removed cases, judgments, &c.	103,586 72
Public Schools, less amount paid by State of Maryland.....	594,088 87
Expenses of the city poor.....	210,738 64
Harbor Commission.....	76,357 68
Police Department.....	702,881 56
Health Department.....	75,559 56

Department of Street Cleaning.....	263,933 67
Fire Department.....	214,226 11
Department, Inspector of Buildings....	100,842 09
“ City Commissioner.....	184,953 25
Expenses of Parks and Squares, exclu- sive of Druid Hill and Patterson Parks.	52,079 98
General Superintendent of Lamps, Gas and Electric Light.....	221,203 45
City Council—salaries of members, of- ficers, and expenses.....	52,925 12
General Expense Account.....	1,188 84
Care of Masonic Hall and Court House..	3,283 20
“ Court House and grounds.....	5,901 81
Expenses of Markets and Market Halls.	5,056 68
Harbor Masters' Commission for collect- ing wharfage.....	8,408 95
Salaries.....	72,624 35
City Library—supplies for departments.	7,676 57
Public Printing.....	812 45
Discount on taxes and temporary loans.	131,698 05
Heating and general care of City Hall..	18,685 04
Mayoralty.....	1,832 95
Lamp-lighters' salaries.....	46,514 00
Special appropriations.....	4,884 80
Transportation to House of Correction..	225 90
Ground rents on city property.....	4,293 84
City Collector—salaries and expenses...	51,093 83
Elections—City and State.....	10,662 77
Supervisors of Elections.....	684 51
Maryland Institute School of Design...	6,000 00
Fire-plugs and fountains.....	4,000 00

Refunded taxes.....	3,518 36
Enoch Pratt Free Library.....	50,000 00
Ice-boat Maryland.....	10,000 00
Insurance of Bayview Asylum.....	1,305 00
Lot for Colored High and Grammar School.....	14,000 00
Lot for Engine House in West Baltimore.	3,000 00
State tax on city loans.....	13,417 71
City's proportion for opening and closing streets.....	165,058 42
Aggregate of sundry small items.....	7,358 82

Total expenses of city government.. \$4,541,357 23

Expenses of the City government for
1886..... \$4,643,077 21

Expenses of the City government for
1887..... 4,541,357 23

Being a decrease from 1886, of..... \$101,719 98

Actual expenses of the City government
for the years:

1880.....	\$3,947,799 27
1881.....	4,106,447 84
1882.....	4,108,377 90
1883.....	4,256,755 62
1884.....	4,282,992 53
1885.....	4,439,195 53
1886.....	4,643,077 21
1887.....	4,541,357 23

FLOATING INDEBTEDNESS.

The year 1887 ends with a floating indebtedness of \$158,171.40 ; a portion of this was caused by a loss of \$130,000 of estimated revenue from the Baltimore and Ohio Railroad Company. The only way to prevent a floating debt is to make a tax levy sufficient to meet all the requirements of the city government, and then for the Council to make no appropriation of money after the levy is made. I shall not give my approval to any such appropriations in 1888. In this connection I wish to call the attention of the Council to the plan sometimes adopted of making appropriations to be provided for in the levy of the succeeding year, thus putting upon others the burdens which we should bear. The following table will give the items connected with the floating debt:

EXISTING CLAIMS.

Balance due	Water Board..	\$	7,457	92
"	"	Park Board...	32	96
"	"	Jones' Falls im-		
		provement ac-		
		count.....	34,121	17
"	"	Completion of		
		Harford Run		
		sewer ac-		
		count.....	10,669	52
"	"	Patterson Park		
		extension ac-		
		count.....	338	93
Carried forward.....			\$52,620 50	

Amt. brought forward.....	\$ 52,620 50	
Temporary loans from banks.	815,000 00	
Paving certificates maturing during the current year..	5,675 78	
		\$873,296 28
Cash balance in bank Decem- ber 31.....	\$300,124 88	
Bolton property, cost.....	415,000 00	
		\$715,124 88
Debt.....		\$158,171 40
Showing the floating indebt- edness for the years end- ing:		
December 31st, 1878, float- ing indebtedness.....		\$622,649 18
December 31st, 1879, float- ing indebtedness.....		296,370 28
December 31st, 1880, float- ing indebtedness.....		155,776 37
December 31st, 1881, float- ing indebtedness.....		29,774 48
December 31st, 1882, float- ing indebtedness.....		261,344 15
December 31st, 1883, float- ing indebtedness.....		258,237 31
December 31st, 1884, float- ing indebtedness.....		55,379 53
December 31st, 1885, surplus	38,480 47	
December 31st, 1886, surplus	57,278 61	
December 31st, 1887, float- ing indebtedness.....		158,171 40

In addition to this floating indebtedness there is over \$100,000 to be provided for to meet appropriations made by the Council of 1887 to be paid by the levy of 1888. During the former administrations with which I was connected, every effort was made to pay off this floating indebtedness. and as the above tables show that beginning in 1878 with \$622,649.18, after many fluctuations, we finally succeeded in 1885, when the usual annual floating debt was changed to a surplus of \$38,480,-47 with which to begin the year 1886.

REDEMPTION OF WESTERN MARYLAND RAILROAD BONDS.

As required by section 1 of Ordinance No. 11, approved March 10, 1886, the City Register issued and turned over to the Commissioners of Finance, certificates of stock of the Mayor and City Council of Baltimore, amounting to \$1,704,000, bearing interest at the rate of 3½ per cent. per annum, and payable 40 years from the date thereof (Jan. 1, 1887). One hundred thousand dollars of said stock was retained by the Commissioners of Finance towards a sinking fund for the redemption of said stock at maturity, as enacted by section 4 of said Ordinance, and the balance of said stock was sold and exchanged by the Commissioners of Finance at par, realizing.....	
	\$1,604,000 00
Received from City Register proceeds of sale of Western Maryland Railroad Sinking Fund.....	294,320 25
Received from Western Maryland Railroad Company.....	55 75
Making the total amount received from the several sources.....	\$1,898,376 00

to be applied to "the payment and extinguishment" of all of the first three issues of bonds of the Western Maryland Railroad Company, viz: "The first mortgage bonds, the second preferred mortgage bonds, and the second mortgage bonds, and the overdue coupons on said first mortgage bonds and said second preferred mortgage bonds, except so much of said second preferred mortgage bonds, and of the overdue coupons on said first mortgage bonds and second preferred mortgage bonds as are held by the Mayor and City Council of Baltimore."

The first mortgage issue of the Western

Maryland Railroad Co. amounted to \$ 600,000 00

The second preferred mortgage issue of the Western Maryland Railroad Co.

amounted to..... 600,000 00

The second mortgage issue of the Western Maryland Railroad Co. amounted

to..... 600,000 00

The funding certificates for overdue coupons held in escrow by the Safe Deposit Co. of this city, amounting to..

546,906 00

\$2,346,906 00

First mortgage bonds held

by city in sinking funds. \$ 43,500 00

Second preferred mortgage

bonds held by city in

sinking funds..... 178,500 00

Funding certificates held

by city in sinking funds 226,530 00

448,530 00

Leaving the total amount to be redeemed \$1,898,376 00

Prior to the commencement of redemption of these bonds the Western Maryland Railroad Company "executed and delivered a mortgage to the Mayor and City Council of Baltimore of all the property and revenue of the said Company, and of all property and revenue hereafter to be acquired by said Company," as required by section 3 of said Ordinance No. 11, of 1886, which mortgage was caused to be duly recorded in the City of Baltimore and the several counties through which the road passes.

The Western Maryland Railroad Company also, as stipulated in section 5 of said Ordinance No. 11, of 1886, deposited with the "Mayor and Commissioners of Finance the agreement of the County Commissioners of Washington County, approved by the General Assembly of Maryland, that the said County Commissioners of Washington County will, upon the payment of the \$300,000 of the second mortgage bonds of the said Company guaranteed by the said County Commissioners, surrender all the coupons of said bonds which may have been paid by the said County Commissioners up to the time of the payment of said \$300,000 of the bonds of the Western Maryland Railroad Company, and accept in lieu and in full satisfaction for said unpaid coupons the preferred stock of the Western Maryland Railroad Company."

All the other legal requirements of said Ordinance having been complied with, the Commissioners of Finance commenced the redemption of the aforementioned bonds and certificates on January 3, 1887, and

up to and inclusive of December 31, 1887, have redeemed of the

First mortgage.....	\$557,000 00
Second mortgage.....	599,000 00
Second preferred mortgage.....	421,500 00
Certificates.....	317,589 00
	\$1,895,089 00

Leaving \$3,287.00 of bonds and certificates to be redeemed when presented, and also a January, 1890, coupon for \$3.00, which was detached from a first mortgage bond for \$100.00, redeemed on November 16, 1887, for which \$97.00 only was paid.

I learn from the President of the Western Maryland Railroad Company that a proposition will be made to the Legislature to authorize a lease of that portion of the Chesapeake & Ohio Canal (a corporation now in rather a sickly condition), lying between Williamsport and Cumberland, for the purpose of using its bed for the extension of the road to a connection with the coal fields of the Cumberland region. The full details of this plan, with its advantages to both railroad and canal, are set forth in the memorial to the General Assembly.

CITY COMPTROLLER'S DEPARTMENT.

The report of this officer gives an itemized statement of all receipts and disbursements. These expenditures have already been referred to in my review of the City Register's Department, but those feeling an interest in

how the money collected by taxation is expended will find every dollar accounted for in the admirable report of the City Comptroller.

The following statement gives the cost of the Courts for the past four years :

	1884.	1885.	1886.	1887.
Superior Court... ..	\$10,997 47	\$14,957 14	\$12,842 22	\$13,130 30
Court of Common Pleas..	11,987 97	15,645 45	14,178 96	13,055 27
Circuit Court.....	2,719 47	2,857 17	2,663 25	2,877 65
Baltimore City Court....	10,990 69	15,019 58	14,423 48	13,138 45
Criminal Court.... ..	60,684 30	60,668 83	53,182 92	66,126 73

The cost of the Police department for 1887 was \$702,881.56. Salaries and incidentals of the City Council, \$52,925.12. Public Schools, \$741,491.49. Bay View Asylum, \$79,995.82. Health Department, \$74,726.24. Cleaning streets, \$263,933.67. Lighting streets, \$267,417.45. Repairing streets, \$75,000. Fire Department, \$201,604.22. Enoch Pratt Library, \$50,000. Houses of Reformation, Refuge and St. Mary's Industrial School, \$49,883.40. Care of Insane at Mount Hope and Maryland Hospitals, \$39,000. Jail, \$60,999.65. These items are selected from the report as showing some of the necessary expenses of the municipal government. They are large sums, and yet an examination of the reports of other cities will show that they are far lower than expenditures for similar purposes elsewhere; in fact, that Baltimore is more economically and better governed, in proportion to its population, than any other city in the United States.

The Comptroller calls attention to the necessity for an appropriation to pay off the mortgage on the lot of ground purchased in 1884 for No. 6 Engine House ; the amount required is \$6,180. The mortgage is due March 30, 1888. Also to the necessity of an amendment to ordinance approved May 26, 1887, requiring a license of \$100 per year for wholesale dealers in Centre Market, imposing a penalty for failure to comply with the law, otherwise there is no way of enforcing it. He also suggests a review of the law permitting the sale of merchandise and fancy articles in the markets ; much complaint is made by those paying a regular trader's license, that their business is greatly interfered with by persons taking advantage of the ordinance permitting poor women to sell such articles, provided their stock does not exceed \$40, to keep large stocks of goods in city markets under a \$5 per annum license. The report shows that the city has already paid \$5,278.00 Court costs, and \$1,666.50 for witness fees in the registration cases, and much more probably remains to be paid, as the bills are not all in. Litigation is expensive always, especially where large numbers of witnesses are often unnecessarily summoned in city cases. He also refers to the falling off of receipts for billiards, bagatelle, theatricals, balls and entertainments. In this connection he says :

“I am of opinion that with the assistance of the police, especially so far as licenses are concerned, the revenue of the Comptroller's office would be largely increased. It was formerly the custom for police offi-

cers, when entertainments of any kind to which an admission fee was charged were held, to require a permit from the Comptroller to be shown; this rule has for some time ceased to be enforced." I hope the Commissioners of Police will take this matter into consideration.

COLLECTION OF TAXES.

The City Collector's report shows a total of City and State taxes in 1887 of \$4,854,856.15, of which the City's portion was \$4,418,516 and the State's portion \$436,340.15. The tax collected for the city was derived as follows:

Taxes for the year 1887..	\$3,131,741	17	
Taxes in arrears.....	1,078,370	99	
For new numbers on			
houses.....	10,975	51	
Opening streets and			
alleys.....	\$148,118	72	
Paving streets and alleys.	49,309	61	
			\$4,418,516 00

In 1886 the collections were:

Taxes for 1886.....	\$3,194,613	61	
On account of taxes in			
arrears	1,059,851	65	
Opening streets & alleys	73,462	52	
Paving streets and alleys	78,742	90	
			\$4,406,670 68

The excess of current taxes collected in 1886 over 1887 was caused, as before referred to, by the fact

that the tax levy in 1886 was \$1.70, while in 1887 it was \$1.60.

The following table shows the assessment of real and personal property in Baltimore since 1881 :

	Real Estate.	Personal Estate.	Total.
1881.....	\$185,197,157	\$62,033,032	\$247,230,189
1882.....	187,636,451	58,597,605	246,234,056
1883.....	189,913,494	58,889,738	248,803,232
1884.....	191,516,113	58,135,586	249,651,699
1885.....	194,416,894	59,496,377	253,913,271
1886.....	197,730,574	58,510,081	256,240,655
1887.....	200,775,614	64,784,338	265,559,952

It will thus be seen that the present taxable basis in this city is \$265,559,952. Should a proper re-assessment be made it would not only be satisfactory to the people by correcting a large number of unjust valuations of real estate, but would largely increase our basis, and thus lighten the burdens of taxation. It has been over ten years since the last assessment was made. The following extract from the Collector's report shows how closely he has collected both the current and taxes in arrears. The total collections of 1883 taxes has been $99\frac{98}{100}$; of 1884, $99\frac{96}{100}$; of 1885, $99\frac{83}{100}$; of 1886, $99\frac{39}{100}$, and of 1887 basis \$265,559.92; the collections from May to December 31, 1887, inclusive, amount to $73\frac{71}{100}$. Deducting the amount of "plant" exempt from City taxation, the percentage collected amounts to $74\frac{29}{100}$. The Committee of Ways and Means always estimates the collection of current taxes at

seventy per cent. This certainly speaks well for the efficiency of the Collector's office.

The following extract from the report of the Collector refers to some of the difficulties in collecting taxes : " Some losses and serious delays are attendant upon the collection of taxes on estates involved in litigation, assignments and trusteeships. Such cases are turned over to the city law officers, but there is often long delay in their collection." Attention is also called to the fact that some three thousand entries are on the ledgers of assessments for personal property from \$150.00 down to \$25.00. It really costs more to collect these small amounts than the amount of the tax. It is therefore wisely suggested not to assess personalty in the possession of any citizen unless it amounts to over \$200.00. The Collector also urges the necessity of making provision for properly accommodating the large and increasing business of the office, by moving it to the "Armory" in the third story of the City Hall. Some excellent suggestions are made in this connection which are commended to your consideration.

APPEAL TAX COURT.

This report shows that the number of permits for the erection of new buildings during the year was 3,008, and for additional improvements 590. The following were assessed and will form a part of the basis of 1888 : New buildings, 2,195 ; additional improvements, 269 ; total assessments, \$3,244,750.00.

The following table gives an interesting statement in this connection :

	New Buildings.	Improvements.	Assessments.
1880	948	548	\$2,514,455 00
1881	2,129	570	3,063,490 00
1882	1,660	640	3,152,070 00
1883	2,362	648	2,883,025 00
1884	2,526	682	3,107,472 00
1885	2,970	664	4,340,125 00
1886	2,632	528	3,587,900 00
1887	3,008	590	3,244,750 00

It will thus be seen that while the number of buildings have increased, in 1887, the value has decreased; this is accounted for by the large number of small dwelling houses erected during the past year.

The amount of "plant" or machinery used for manufacturing purposes exempted from taxation for 1887 was \$2,085,571, as follows :

Amount of "plant" of manufacturing estab- ments	\$1,482,791 00	
Amount of "plant" Con- solidated and Equita- ble Gas Companies...	602,780 00	
		\$2,085,571 00

The total amount of taxes thus abated at \$1.60 was \$33,369.13. This is a small amount to annually pay for the encouragement of manufacturing industry, es-

pecially when it is a conceded fact that the future prosperity of Baltimore depends upon its manufactures. As I said in a former message, "it is not commerce alone, but commerce and manufactures together which will make us a great city." We appropriate an average of \$50,000 per year for dredging the harbor in the interest of commerce ; let us at least do something to aid manufacturing. And while I don't think the law ever contemplated including gas companies and newspapers as such manufactures, the plant of which it was intended to exempt, better let them go than repeal such wise legislation.

The abatements allowed on real property over assessed during the year 1887, was \$242,390 ; in 1886 it was \$202,065 ; in 1885, \$1,068,016 ; in 1884, \$971,001 ; in 1883, \$866,360 ; in 1882, \$602,956, an aggregate of \$3,952,788. What better argument could be made in favor of a new assessment, to the necessity of which both City Collector and Judges of the Appeal Tax Court call your attention, and in which recommendation I earnestly join.

PUBLIC SCHOOLS.

The number of these schools in 1887 was one hundred and twenty-eight, one hundred and twenty-four week-day and four evening, with forty-one thousand one hundred and ninety-nine enrolled pupils, as follows : Baltimore City College, three hundred and eighty-five pupils ; two Female High Schools, seven hundred and thirteen pupils ; Manual Training School, two hundred and se-

venty-three pupils ; thirty-nine Grammar Schools, eleven thousand seven hundred pupils ; sixty Primary Schools, seventeen thousand nine hundred and sixty pupils ; five English-German Schools, four thousand seven hundred and eighty-three pupils ; sixteen Colored Day Schools, five thousand three hundred and eighty-five pupils. The four evening schools have three hundred and fifty-six pupils. There are nine hundred and ninety-four teachers. The average daily attendance was thirty-three thousand six hundred and eighty-four. The whole number attending during the year was fifty-nine thousand six hundred and eighty-two. The increase of enrolled pupils in 1887 was fourteen hundred and twenty, with a corresponding increase in the average attendance.

The total receipts from all sources were as follows :

City Collector.....	\$579,372 80
State Treasurer.....	147,402 62
Non-resident pupils.....	6,591 46
John F. Plummer, interest on legacy.....	129 48
Intestate estates.....	73 30
Rent of building on Caroline street.....	45 00
Total.....	\$733,614 66

The amount received from the City Collector was \$13,669.23 more, and from the State Treasurer \$9,412.07 less than during the previous year.

The number of non-resident pupils in the schools was three hundred and sixty-six, and the amount received therefrom was \$6,591.46.

The disbursements were as follows :

Salaries.....	\$603,369	30
Rents and ground rents.....	32,562	60
Books and stationery.....	40,304	38
Heating apparatus.....	7,655	54
Furniture.....	11,182	94
Fuel.....	18,063	04
Repairs and cleaning.....	7,513	07
Printing, supplies and incidentals.....	8,879	34
Evening Schools.....	965	10
Manual Training School.....	10,996	18
Total.....	\$741,491	49

In addition to the above, the sum of \$14,000 was appropriated for the purchase of a lot for a colored High and Grammar school. This lot is on Saratoga street, near Charles, where the building is now being erected. The sum of \$38,000 was also appropriated for new buildings and general repairs ; of this, \$26,112.63 has been expended.

The estimated expenses for 1888 are \$771,500. This is more than for 1887, but the increase of fourteen hundred pupils requires the employment of twenty or thirty more teachers, whose salaries alone would be over \$10,000, together with other expenses.

Liberal treatment of the public schools has never failed to receive the people's endorsement. It must be remembered, in this connection, that the ordinance pro-

viding for free books, passed a few years since, added about \$50,000 to the annual expenses of the system.

In no large city are public schools conducted more economically ; our buildings are less costly, the salaries are lower, and the cost per pupil is less. In Boston in 1886, (I have not the report for 1887,) the number of pupils was fifty-seven thousand one hundred and eighty in day, and four thousand and seventy-nine in night schools, running expenses \$1,673,672.83, and average cost per pupil \$26.81. The total amount expended, including erection of school buildings, was \$2,036,460.18. As stated above, although our average daily attendance was thirty-three thousand six hundred and eighty-four, our enrolled pupils were forty-one thousand one hundred and ninety-nine, and the entire attendance in 1887 was fifty-nine thousand six hundred and eighty-two.

New school houses will be required during the year to accommodate the certain increase of about fifteen hundred or two thousand pupils. The city owns sixty-four buildings and rents twelve. Most of the rented buildings are unfitted for the purpose ; the rooms are small, ceilings low, and ventilation bad ; a hot stove in winter with closed windows makes the atmosphere almost unbearable. The health of pupils necessarily suffers. A sanitary inspection would show that many of these houses do not contain enough cubic feet of air space for the numbers crowded into them.

The report of the School Board says: "Application

will be made for the erection of new buildings for Primary No. 13, Grammar No. 2, Primary No. 19, Public School No. 5, Primary No. 24, and Manual Training School." There is no doubt about their being needed. It will be for your Honorable Body to consider how far these requirements can be complied with. The Manual Training School has added more than one hundred pupils to its roll during the year. It is much cramped for room ; the ventilation of the building is bad, and the ceilings low. It certainly should be modernized in the interest of the boys' health.

The School Board contemplates introducing instruction in sewing in the female grammar schools, and the kindergarten as a part of the system. I see no reason why colored teachers, where capable, should not be employed in the colored schools. I hope the School Board will recognize the just claims of this class of our citizens in this connection. It is gratifying to know that the new building on Saratoga street will furnish many colored children with modern school house accommodations and the advantages of high school education. Being a sincere believer in the policy of free public education, I earnestly recommend a liberal provision for the support of the people's schools. No money invested in any department of the municipal government makes better returns.

REFORMATORY INSTITUTIONS.

I recommend the usual appropriations to these useful institutions. The reports of the House of Refuge, St.

Mary's Industrial School for Boys, the House of Reformation for Colored Boys, the Industrial Home for Colored Girls, and the Female House of Refuge, all indicate an efficient and economical management. The city is represented in the Board of Managers of each of these institutions. The report of St. Mary's Industrial School shows that during the past year there were in the institution five hundred and seventy-four boys, of which one hundred and sixty-three were discharged; three hundred and thirteen were committed by city magistrates. A large additional building has been erected, affording ample accommodation for the inmates. The House of Refuge has now two hundred and four inmates, and is well managed by those in charge. During the past year \$3,500 was expended by the city in repairing the buildings. More repairs are needed, for the buildings are extensive. It is a most useful city institution.

The biennial report of the House of Reformation for Colored Boys shows that the total number of inmates from November 30, 1885, to November 30, 1887, was four hundred and forty-five, of which one hundred and ninety-nine were received during that period; one hundred and eighty-seven were discharged or returned to their parents; only seven died. The number of inmates November 30, 1887, was two hundred and fifty-three. This institution is largely indebted for its prosperity to the interest and liberality of Mr. Enoch Pratt.

THE ENOCH PRATT FREE LIBRARY.

This institution, the gift to the city of Mr. Enoch Pratt, consists of a Central Library and four branches. The number of books is fifty-nine thousand two hundred and twenty-four volumes, of which thirty-nine thousand are in the main building and about five thousand in each of the four branches. Within a short time past Mr. Pratt has purchased a lot of ground on Broadway, near Chew street, on which he proposes to erect another branch building, as an additional gift to the city. The total number of volumes issued during the year was four hundred and seven thousand five hundred and thirty-nine, of which two hundred and sixty thousand two hundred and forty were from the central building; from Branch 1, sixty-four thousand nine hundred and twenty-five; Branch 2, forty-four thousand eight hundred and fifty-seven; Branch 3, twenty-one thousand four hundred and seven, and from Branch 4, sixteen thousand one hundred and ten. The number of citizens who have registered the privilege of taking books is thirty-one thousand six hundred and ninety-six, an increase during the past year of five thousand seven hundred and thirty-three. As an indication of the care taken of the books by those using them, an examination of the libraries in July last showed that only eleven volumes were unaccountably absent from the Central Library and three from the branches. The average daily circulation from the central building was eight hundred and forty-seven; the largest number of books issued on any one day being twelve hundred and

eighty-four, and the smallest five hundred and seventeen. The employees of the institution consists of forty-three, of which eleven are males and thirty-two females. The expenses for the year were as follows:

Books.....	\$17,940 72
Binding.....	1,119 00
Periodicals.....	1,170 86
Expenses (miscellaneous).....	4,220 73
Salaries.....	16,950 37
	\$41,401 68

The usefulness of this institution, and its benefits to our people, is indicated by the large annual circulation of its books, four hundred and seven thousand five hundred and thirty-nine. It must be most gratifying to Mr. Pratt to thus realize how much pleasure and information he is giving to his fellow-citizens. May he long live to enjoy these fruits of his own liberality.

The amount paid the city by Enoch Pratt, Esq. for the \$50,000 annuity to the Enoch Pratt Free Library, was as follows:

Cash.....	\$833.333 33
Cost of main building on Mulberry street.	250,000 00
Cost of branch building corner of Fremont and Pitcher streets.....	12,500 00
Cost of branch building corner of Hollins and Calhoun streets....	12,500 00
Carried forward.....	\$1,108,333 33

Brought forward	\$1,108,333 33
Cost of branch building corner of Light and Gittings streets	12,500 00
Cost of branch building corner of O'Don- nell and Canton streets	12,500 00
	\$1,133,333 33
And the cost of all the books to date	85,000 00
	\$1,218,333 33

The report from Mr. W. B. McAtee, the City's Visitor, states that "he has examined the books and accounts of the Enoch Pratt Free Library for the year 1887, and found the same correct in every particular."

HARBOR BOARD.

The report of this department gives the amount of dredging, two hundred and eighty-three thousand three hundred and sixty-two cubic yards; area dredged, one hundred and seventy-one thousand three hundred and eighty-three square yards, or thirty-six acres, giving an increased average depth of five feet. Cost of dredging, $17\frac{6}{10}$ cents per cubic yard. Total expenditures of department, \$49,921.50. This includes all expenses of the department—office, inspections, surveys, &c., and maintenance of Tug Baltimore.

The following information I have gathered from the report of the Engineer of the Harbor Board:

"The dredging was in the Back Basin, opposite the mouth of Jones' Falls, channels in Middle Branch,

docks at Barre, Conway, Camden, Calvert, Frederick and Washington streets, and at foot of Thomas street. The twenty-seven foot deep ship channels from Locust Point to Lazaretto Point have been widened one hundred and thirty-five feet for a length of twenty-five hundred feet on the western side of the harbor, and three hundred and sixty feet for a length of seven hundred and fifty feet on the Canton or eastern side. A width of ninety feet has been excavated to a depth of twenty-seven feet on the hard shoal extending from Foley's wharf to Grafflin's, for a length of nine hundred and fifty feet. The least width of the ship channels of twenty-seven feet depth is now five hundred feet. The re-survey of the harbor has been completed, and the maps lithographed and ready for distribution to those interested."

When it is recollected that the drainage of the entire city finds its way into the basin, the amount of dredging required annually to maintain the necessary depth of our inner channels can be realized. "Since the autumn of 1886, the General Government has expended \$150,000 in widening the twenty-seven foot ship channels leading to the port, thus giving an increase of width of fifty feet to the lower section or Craighill channel, and one hundred feet to that of the new section or cut-off channel, making these two channels (about nine miles long) four hundred feet in width." As a width of six hundred feet is essential to safe navigation of these channels by the large steamers now coming to this port, it is earnestly hoped that our Representatives in Congress

will secure the necessary appropriation for this purpose. I hope that the Board of Trade, Merchants' and Manufacturers' Association and other business organizations, will lend their aid to our efforts in this direction.

The report gives a statement of the work done during the year on the stone bulkhead at City Dock, repairs of wharves, and on the sea-wall at Little Hawkins' Point. The ice-boat "Latrobe" is in good condition and ready for the winter's work, if called upon. The old ice-breaker "Maryland" has seen her best days, and, in my judgment, provision should be made by the Legislature for constructing a new and improved steamer to take her place. The closing of this port for a month, or even two weeks, would cause a greater loss to our city than the cost of two or three ice-boats.

STREET CLEANING DEPARTMENT.

Our streets must be kept clean. The people want to know what it costs. Fortunately, the aid we get from heavy rains, thanks to our surface drainage, is frequent and free. The amount expended for street cleaning and removal of garbage and ashes, during the past year was \$263,940.00. Of this sum \$8,250.00 was paid for removal from the city of garbage. The amount received from sale of refuse or street dirt, and paid into the city treasury, was \$1,563.05. There are one hundred and thirty-four garbage carts and men, fifty-six street carts and men, and one hundred and twenty sweepers and scrapers. The city is divided into six districts, each under a superintendent, to whom is paid a salary of \$1,000.

There is a Commissioner of Street Cleaning, who is held responsible for the proper working of the department, with an office in the City Hall, and a salary of \$2,000.

By a strange anomaly this Commissioner has no power in the selection of the employees of the department; this is done by the several district superintendents. It should be otherwise. I therefore again join in his recommendation that "authority to employ the men for the service should be vested in the Commissioner, to secure the more efficient performance of the work." My predecessor, Mayor Hodges, earnestly recommended this policy.

The Commissioner recommends a special appropriation of \$5,000.00, to be expended, with the approbation of the Mayor, on the occasions of a heavy fall of snow. He also suggests the passage of an ordinance providing that the collection of garbage shall only be made by the owner of the horse and cart employed for the purpose.

FIRE DEPARTMENT.

The Fire Department of Baltimore consists of thirteen engine and five hook and ladder companies, with a force of two hundred and thirteen members, ninety-five being permanent, uniformed firemen, and one hundred and thirteen call men. The ninety-five firemen are divided as follows: One chief engineer, \$2,000 per annum; two assistant engineers, \$1,400 each; one superintendent of machinery, \$1,400; thirteen engine-

men, \$1,100 each; thirteen assistant enginemen, \$900 each; seventeen drivers, \$900 each; ten tillermen of trucks, \$900 each; twenty-two firemen in engine companies, \$800 each, and fifteen laddermen in truck companies, \$800 each. The un-uniformed call men are divided as follows: Eighteen captains at \$500 per annum each; seventy-four firemen at \$400 each; twenty-five laddermen at \$400 each, and one superintendent of horses at \$500. There are five substitutes for each company, receiving no compensation, except when on duty for regular members. These substitutes are promoted to regulars when vacancies occur. The apparatus connected with the Department consists of eighteen steam fire engines, thirteen being in active service and five held in reserve; twenty-six four-wheel hose carriages, each engine company being provided with two, seven hook and ladder trucks, five being the Hayes' Extension Trucks, five of which trucks are in active service and two held in reserve. There are thirty-four fire extinguishers of five gallons capacity each, two of which are carried on the first hose carriage of each engine company and on Nos. 3, 4 and 5 Hook and Ladder Trucks, and four fire extinguishers of fifteen gallons capacity each, carried, two each on Nos. 1 and 2 Trucks; twelve steam heaters for engines, all having them except No. 10; one wrecking truck, and four Concord wagons, fitted with large gongs for the use of the officers.

There are eighty horses in the Department, distributed as follows: Four horses to each of the thirteen

engine companies, three horses to each of the five hook and ladder companies, seven horses used by the officers of the Department, three by the Fire-Alarm Telegraph Department, one for the supply wagon, and two in reserve for use of engine companies. The fire-alarm system with its central office at the City Hall to which all alarms of fire are now sent, and thence are transmitted to the different engine houses, has two hundred and thirty-one call boxes of which twenty-eight are of the keyless pattern. Its force consists of one superintendent, salary \$2,000 per annum; four operators, \$1,200 each; one lineman, \$1,200; one assistant-lineman, \$1,000, and one battery man, \$1,200. The cost of maintaining the Fire Department for the year 1887, including the insurance, \$1,058.55; paid for loss of life of firemen, was \$179,853.87; of the police and fire-alarm telegraph, \$22,813.90, in all \$202,667.78. The number of fires during the year 1887 was four hundred and ninety-six, and the total loss, \$1,165,610.84, of which amount \$787,981.27 was the result of four fires. In 1886 the number of fires was four hundred and thirty-eight, and the loss \$896,527.12. The Fire Department of Baltimore is small in proportion to the size of the city, but its efficiency will compare most favorably with that of any city in the country. Its members are well trained, experienced and brave; again and again have they proved their courage and endurance, and their roll of honor shows how many have fallen at their post. During the past year the Chief Engineer of the Department was seriously wounded, and Captain Schulte lost his life in the discharge of

their duties. The year 1887 was noted for fire losses, but these losses in Baltimore were not larger in proportion to its population than those of other cities. I have not the tables necessary to give the statistics in other cities for the past year, but the following for 1886, in this connection, will be interesting. Baltimore, population four hundred and seventeen thousand, thirteen engine companies, four trucks, two hundred and one firemen; cost of maintenance, \$197,850.00, losses by fire, \$896,527.12. Boston, population four hundred thousand, thirty-one engine companies, fourteen trucks, seven chemical engines, one fire-boat, six hundred and eighty-nine men; cost of maintenance, \$637,758.64, losses by fires, \$931,999.00. Chicago, population seven hundred thousand, forty-one engine companies, eleven trucks, six chemical engines, one fire-boat, five hundred and twenty-seven men; cost of maintenance, \$823,413.02, losses by fire, \$1,492,084.00. Cincinnati, population three hundred thousand, twenty-five engines, seven trucks, three chemical engines, two hundred and twelve men; cost of maintenance, \$259,343.38, losses by fire, \$1,200,129.63. New York, population one million five hundred thousand, fifty-five engines, nineteen trucks, two fire boats, nine hundred and eighty-three men; cost of maintenance, \$1,839,125.00, losses by fire, \$3,340,810.00. San Francisco, population three hundred thousand, fifteen fire engines, five trucks, three hundred and forty-five men; cost of maintenance, \$321,270.83, losses by fire, \$870,219.10. Within a short time an additional truck and an engine company will be added to our force. The new truck

house provided for by the last Council, corner of Ostend and Hanover streets, is ready to receive an apparatus, which I hope the Council will at once make provision for. The erection of the building for Engine Company No. 14, on Monroe street, near Hollins, is now in progress. I suggest an appropriation to purchase the necessary equipment, and provision be made in the estimate for this Department, for the organization and maintenance of these two companies. The rapid growth of the city requires an increase of its Fire Department. The Board of Fire Commissioners recommend, what fully accords with my judgment, the addition of two more engine companies—one to be located in the centre of the city, and the other in the northern section. For the former, the Chief Engineer wisely suggests the neighborhood of Lombard and Liberty streets, thus giving a down grade going east and south, and for the other the neighborhood of Union Depot. The City owns a lot, on part of which rests the northeast corner of the abutment of St. Paul street bridge, which was purchased by the Jones' Falls Commission during my former term of office, with a view, at that time, to its future availability for this purpose. This is in the midst of a neighborhood now sadly in need of protection from fire, and the grades north, south, east and west are all favorable.

There is also need for a fire-boat to protect the wharf property. How far the steamer "Baltimore" can be made available for this purpose is a matter for consid-

eration, but such an addition to our Department seems to be absolutely essential. During the past year the city has been placed under many obligations to the Baltimore & Ohio Railroad Company for the efficient service rendered by the tugs "Convoy" and "Transfer," and I join in the recommendation of Chief Hennick, that when such services are rendered, compensation should be made by the city to the men who compose the crews of these boats.

A provision should certainly be made for a larger number of reserve horses, as recommended by the Board. At present there are only two. In this connection the Chief Engineer suggests the erection of a stable in the rear of the lot on Hollins and Monroe streets, purchased for No. 14 Engine, with four stalls for reserve horses, and five stalls to be used for horses temporarily disabled. Much has been said in connection with a full paid Fire Department. This would certainly largely increase the cost, if not the efficiency of the present system. Certainly, the members of our Department have again and again proved their efficiency under the present system. I find in the report of Chief Engineer Hennick a suggestion that the central companies, Nos. 1, 2, 3 and 4, should either be composed all of permanent members, or that the present number of permanent members should be increased; and also that one or more chemical engines should be added to the force. This subject is a matter for your consideration. We want an efficient Department, at the same time the policy of a proper economy that has prevailed

in the government of this city must not be lost sight of. The Police and Fire Alarm Telegraph is the right arm of the Fire Department. Unless the proper signal is given the relief is delayed, and the loss of a very few minutes in the outbreak of a fire cannot be repaired by the most efficient service afterwards.

The report of Superintendent McAleese gives a detailed account of the condition of his office. He recommends a continuance of the policy of changing the old galvanized wire to copper wire, and a change of the present cotton covered wire used in the City Hall to cable, or Grimshaw's covered wire, the latter costing only a few hundred dollars. He also asks for the appointment of an additional lineman. He calls attention to the necessity for an increase of wires or circuits. When the present system was adopted in 1876, there were only one hundred and fifty alarm boxes. Since then eighty have been added. The trouble now is that there are several boxes protecting the same locality on the same circuit, and if two or more happened to be pulled at the same time, the probability would be a confusion in the signal sent to the central office at the City Hall. The Superintendent suggests, in this connection, running ten new circuits, and then re-arranging the boxes so that no two boxes protecting the same neighborhood should use the same wire. These subjects require your earnest consideration, involving as they do the proper protection of life and property.

I have thus fully reviewed all matters relating to Fire Department, recognizing its importance, and at the same time fully appreciating the courage and bravery of the Baltimore firemen.

INSPECTOR OF BUILDINGS.

The report of this officer gives an account of the work of his department during 1887. The amount expended was \$104,858.97. The net revenues were \$4,893.09. A new hook and ladder house has been erected on corner of Hanover and Ostend streets, at a cost of \$8,592.81. The Northeast Market shed has been completed; cost \$8,995.75. Primary School No. 8, on Caroline street, completed; cost \$9,000. An addition put to No. 21 Grammar School; cost \$3,931.87. Laundry erected at City Jail; cost \$4,500. The observatory at Federal Hill finished; cost \$2,997.10, and new truck house for No. 5 Hook and Ladder; cost \$3,983.10. Besides this, the school houses, court house, engine houses, City Hall, and other buildings used for municipal purposes, have all been kept in good repair. The Inspector suggests the repeal of that portion of the law relating to frame bath rooms, requiring the applicant to pay two dollars for advertising, in addition to paying for the permit. He considers the advertising an unnecessary expense to the petitioner, as he has never heard of a protest against the erection of such a bath room. He also suggests an ordinance providing for the payment of one dollar for a permit for bath rooms not projecting over six feet from the

building, and two dollars for all projecting over six feet. He also calls attention to the necessity for a proper building law, to prevent the erection of buildings dangerous not only to the occupants but to their neighbors. During one of my former terms the Mayor, by the authority of the Council, appointed a committee consisting of Messrs. J. H. B. Latrobe, George A. Frederick, Samuel H. Adams, William T. Wilson, George A. Blake and John Murdock, who submitted a carefully prepared code of building laws; for some reason it was not adopted. I learn now that "The Master Builders' Association" is having a somewhat similar law prepared. No legislation is more needed, and I hope, when brought before your honorable body, it will receive due consideration.

There is no department of the Municipal government better or more economically managed than that of the Inspector of Public Buildings. His report shows that in the last six years, during the greater part of which the present incumbent has been connected with the office, there has been a clear gain to the city of \$102,440.10.

CITY COMMISSIONER'S DEPARTMENT.

This is an important department of the municipal government. In its keeping is the paving and repairing of all streets and construction and repair of all sewers and bridges. Much of the comfort of citizens and prosperity of the city depends upon its proper administration. The office consists of one Commissioner, with three assistants. Its chief is one of the

Commissioners for the Improvement of Jones' Falls. There are three hundred and fifty miles of paved streets in Baltimore, and about twelve miles of sewers. To keep the former in repair, \$75,000 is annually appropriated; a small sum for so much work. Of this amount \$74,911.25 was expended in 1887. The repairs extended over two million two hundred and thirty-three thousand and seventy-seven square feet of cobble stones, and thirteen thousand three hundred and three square feet of Belgian block and asphalt pavement. The work of repairing was done by twelve gangs of men, six gangs in each the eastern and western districts. It cannot be said that our streets are in the best condition, but when it is taken in consideration, first the constant uprooting of pavements for laying gas, water and drain pipes, next the fact that we have so much cobble stone pavements, and then the large area to be kept in repair, and the small amount available for the purpose, it is a surprise that the streets are even in fair condition. It is true gas companies and individuals laying drain pipes are compelled to replace the pavements, but experience teaches that a pavement once broken cannot, even with all care, be restored to its former condition without at least twice being repaved, and even then it is seldom as good as it was, unless repaved from kerb to kerb. One has only to go to New York or Philadelphia to find that other people have far more to complain of in this respect than those in Baltimore. I agree with the recommendation of the Commissioner, that before permission is given to open the pavements a sum sufficient to effectually replace the same should

be first deposited in the city treasury, and the city should make the required repairs. The Council should not authorize laying drain pipes without payment of the twenty cents per lineal foot. It is a small amount to be paid for the necessary inconvenience to the public and injury to the pavement. During my last term I refused my approval to such legislation.

Our system of street paving is wrong. When a new street is to be paved, proposals are advertised for and the contract awarded to the lowest bidder. This is required by city ordinance and exacted by adjacent property holders, who have the bill to pay. The result is that the worst kind of cobble—in fact, rubble stone—is laid in the cheapest manner. It would be better for property holder and general public if the city did the work. It would cost a little more, but the pavement would be well laid. No better or cheaper Belgian pavement has anywhere been laid than in Baltimore. The work was done by the city without the interposition of a contractor. We paid fair wages and we got good work. A similar result would follow laying cobble stone pavements under the same system. It would be much cheaper in the end to lay Belgian blocks in those streets having heavy travel. It would greatly reduce the cost of repairs. An example in this connection is shown in Light street, from Pratt to the south side of the basin. On no street in the city is there more travel, and yet it has only been repaired once since first laid in 1874. This pavement is now almost as good as new. Asphalt blocks have done very well

in such streets as Eutaw Place, where travel is light, and a smooth surface for pleasure driving is desirable. In Washington city it seems to be the favorite pavement, and the test to which it has been here subjected of seven or eight years' travel on the popular roadway to Druid Hill Park, is certainly an evidence, where properly laid, of its durability. The blocks used here for this pavement are all manufactured in Baltimore.

The report of the City Commissioner gives a statement of pavements, flag-stones and gutter-plates laid during the past year; bridges repaired and sewers constructed and repaired, with the cost thereof. The only improved pavement laid was on Fulton avenue, from Baltimore street to Edmondson avenue, with asphalt blocks, at a cost of \$9,470.65 to the city, and \$4.40 per front foot, or \$18,717.07 to the property binding thereon. Centre Market was paved under the Maryland Institute, between Baltimore and Second streets, with sheet granolithic pavement, at a cost of \$6,110.85. The paving of Fulton avenue, from Edmondson avenue to Presstman street, with asphalt blocks, leaving a space twenty-four feet in width in the centre of the street, as provided for in ordinance approved May 6, 1887, is now in progress. As this work was not commenced until September, the greater part of its cost to the city must be provided for in the levy of 1888. The condition of Boundary avenue, from Greenmount avenue to its eastern terminus, was in an almost impassable condition. After consultation between the City Commissioner and the Mayor, it was

determined to temporarily repair it with shells. This street should be paved. Wilkins avenue is left in an unfinished condition. Those interested therein appear to have desired to park the avenue in the centre. In my judgment, it was a mistake. This is, however, a matter of taste. If the parks are to remain—and to get rid of them would require a repeal of the present ordinance—I think the property would be greatly improved by paving the street bed on either side thereof with Belgian blocks. What Wilkins avenue wants to improve it is a street railway.

BRIDGE AT INTERSECTION OF WOLFE AND PRESTON STREETS.

A new bridge at this point is required. The present crossing of the Union Railroad greatly interferes with the rapid improvement of this neighborhood. It can be built only on one of two plans—either to lower the grade of the street under the present crossing, or to raise the grade of the crossing. There must be more head room than is given by the present bridge. Negotiations are in progress with the Northern Central Railroad looking to a plan for this most needed improvement. The proper mode is to raise the crossing, not to lower the street. This bridge will be costly, but the Council must realize that it is demanded for the improvement of property in that neighborhood. The report gives full details in this connection.

FALLS ROAD.

The condition of the Falls road, from Maryland avenue to the city limits, has long been a notorious nuisance. It is now in course of abatement by the construction of a retaining wall on its west side, under an ordinance approved October 27, 1886. While this ordinance directed the work to be done, it made no appropriation for payment thereof. This was not careful legislation, but in the opinion of the City Solicitor the necessity of the work justified its being undertaken, provided a contractor would build the wall and await payment. Of course there was no difficulty in this, and the contract was awarded in September, 1887. Its cost, some \$16,000, will be a burden on the levy of 1888.

BOLTON DEPOT PROPERTY.

This tract of land now belongs to the city. It was acquired during a former administration with which I was connected. The cost was large, over \$400,000. In my judgment the improvement to the neighborhood, including the value of the land acquired, fully justified the expenditure. The question is what to do with it? If it is to be sold for building lots, and the city to be thus reimbursed in part for its outlay, an act of the Legislature should be passed, giving its sale to the Mayor, Register and Comptroller, instead of offering it at auction to the highest bidder. This course will in my judgment obtain better prices than a public sale, which would afford opportunities for purchasers to form com-

binations to keep down the price by agreeing not to bid against each other. By ordinance No. 51, approved April 21st, 1887, streets have been opened, graded and paved through this property. The ordinance made no appropriation to pay for the work; the cost, \$6,211.07 was left to be provided for in the levy for 1888.

BRIDGES.

It will be necessary to make an appropriation of \$3,000 for the maintenance of the Long Bridge. A new boiler is required for the engine at the "Draw." The iron work of the bridges over the Falls, at Calvert and St. Paul streets, must be protected from the action of coal gases from locomotives. This should not be delayed. The report of the Jones' Falls Commission gives the necessary plan. An ordinance is required forbidding locomotives from standing under these bridges. An investigation of Boundary Avenue Bridge near the Central Maryland Railroad Depot, shows the necessity of its thorough repair. This bridge, through mistaken economy, was largely constructed of wood instead of being all of iron. A new bridge is required across Harris' creek on Boston street, to replace the present old wooden structure, now very dilapidated. There is much travel along Boston street. It ought to have a Belgian block pavement. The estimated cost of this bridge, with the necessary abutments, is \$22,000.00.

A bridge over the Baltimore and Ohio Railroad tracks at the foot of Monroe street is required. If authority

is given by the Council, plans with specifications and estimates of cost will be prepared by the City Commissioner.

SEWERS.

The report of the Commissioner gives a full account of the work on Harford run sewer. To those residing in East Baltimore it is unnecessary to speak of the importance of this improvement. Awarding the contract for its construction was among the last acts of the administration of '84 and '85. Its cost will be in the neighborhood of \$600,000. No money has been more wisely expended. The contractors, Messrs. Jones and Thorne, under the supervision of Engineer Hook, have given us good work. To properly complete this improvement requires the construction of a branch sewer to accommodate Ogier's run. Without this the improvements of the Patterson Park extension cannot be completed. The length of this sewer through the Park extension would be two thousand seven hundred and five feet, and the estimated cost \$35,000.00. It will be absolutely necessary to build three hundred feet of it, at a cost of \$4,000, to close the gap left in the main sewer in Patterson Park.

I shall now refer to sewers generally, without going into full details of the plans of those suggested. Property holders interested can, by referring to the report of the City Commissioner, find the proposed plans and locations in detail.

There is no greater need in this city than a proper system of storm-water sewerage. The northeastern, northwestern and southeastern sections are especially deficient in this connection. Much damage is caused by heavy rains; cellars are filled and foundations injured. The neighborhoods of Carey and Franklin streets, and the eastern terminus of Wilkens avenue, are especial sufferers. As the city grows the increased area of paved streets increases the volume of water flowing over natural water-sheds; many new sewers and extensions of old ones are therefore required. The demands of improved property in this connection are imperative. The work cannot be delayed without great injustice to those who have invested their capital in increasing the taxable basis. That the work will be costly is shown by a report of a committee of the Council in 1886, giving the total estimate for those then required as \$1,300,000, as follows: For Druid Hill avenue relief sewer, \$150,000; northeast branch of Gwynn's run sewer, \$274,000. The Schroeder run system of sewers, as follows: For the Calhoun street relief sewer, that is the sewer to relieve Carey street sewer, \$265,000; for diversion of sewer from Arlington avenue in Pratt, Schroeder and Fayette streets, Arlington avenue and Saratoga street to Carrollton avenue, \$60,000; for improvement of Schroeder's run from foot of Carey street to Spring Gardens, \$300,000. The Chatsworth run system of sewers, as follows: For intercepting sewer on Eutaw street from Spring Gardens to Fremont street, and on Fremont street from Eutaw street to Columbia avenue; for the continuation of Penn street sewer, from Dover

street to Columbia avenue ; for the improvement of Chatsworth run, north of Baltimore street, \$200,000. For the Light street sewer, from Light street wharf to West street, \$51,000. Total, \$1,300,000. To this should be added the Ogier's run sewer already referred to, and especially the Jenkins' run sewer, than which none is more needed, and the estimated cost of which is \$37,200. A sewer is also needed for the relief of Charles street, from Lanvale street to North avenue ; another is immediately required to discharge the accumulation of water from the intersection of Dolphin street and Mount Royal avenue ; another in Cathedral and Preston streets, from Madison avenue to Hoffman street, for relief of Camel alley. An immediate appropriation will be necessary, of \$5,500.00, to complete the extension of the Mosher street and Rutter's run sewer.

In the northeastern section a sewer is required from a point on Broadway, where the Union Railroad crosses, to the sewer now located on Gay street, the estimated cost being \$8,500 ; and another sewer, joining the Ann street sewer, to the ten-foot circular sewer at Wolfe and Eager streets, thence up Wolfe street until it intersects the new sewer just completed at Wolfe and Gay streets, the estimated cost of which is \$38,700.00 ; this latter sewer should be built in connection with the reconstruction of the Union railroad bridge over Wolfe street, the abutments of the present bridge now standing on the line of the proposed sewer.

The report of the City Commissioner gives in detail the repairs required for the present sewers. All of the

new sewers above referred to are now, I may say, demanded in the public interest. This is known to those familiar with the city. The outlay required is large, but the improvement in the value of the adjacent property would more than justify the investment. I recommend that the Mayor and City Commissioner be authorized to proceed at once to have all additional plans and surveys necessary for their construction made, and, if required, to employ one or more of the engineers already in the service of the city to aid the officers in the City Commissioner's office in the preparation of such plans, so that the location and dimensions of these sewers will conform with any general system of storm-water sewerage to be hereafter adopted for the city.

A great difficulty heretofore encountered has been in obtaining a proper sewer trap for preventing the escape of sewer gas; this is apparently obviated by an invention of Mr. Kahler, one of the assistants in the office.

JONES' FALLS COMMISSION.

The report of this Commission gives an account of the work done thereby during the year. This includes the construction of the new bridge over the Falls on the line of north Charles street, and a continuance of the retaining walls on either side of the Falls, between Biddle and Preston streets. The Charles street bridge is a handsome and substantial structure, reflecting credit on the designer and superintendent of the work, Mr. Charles H. Latrobe. The masonry work of the retaining walls is of the best character, and has

favorably progressed under superintendence of the present able engineer, Mr. William H. Marriott. The labor has been employed directly by the city, and paid at city rates. The amount of wages disbursed in this connection during 1887 has been \$31,278.70, and since June 15, 1881, \$214,759.00. The "Sunken Gardens" have been completed, with the exception of some granite work on the garden between North and St. Paul streets, which will soon be finished. I suggest the passage of an ordinance placing them in charge of the Park Commission, and appropriating seven hundred dollars for their maintenance for the year 1888.

The wisdom of thus improving the south side of the Falls, between North street and Lovegrove alley, is already justified by the character of the improvements made in that vicinity. The opening of Mt. Royal avenue, from its present terminus at Bolton depot to the line of Hoffman street, to be then widened to a width of one hundred and twenty-five feet to North street, in connection with these improvements on the south side of the Falls, will give to North Baltimore an approach to the great pleasure ground, Druid Hill Park, unequalled as a carriage drive in any city of this Union.

The report of the Commission gives a detailed account of the work of dredging the lower part of Jones' Falls, and the great benefit therefrom to the adjacent property holders. I recommend its continuance. There is yet an unexpended balance of \$188,000 of the

amount for which bonds were authorized to be issued for improvement of Jones' Falls. I recommend the following expenditure in this connection. The estimates are taken from Mr. Marriott's report:

To extend the retaining wall from Charles street to Maryland avenue, on the south side of the Falls.....	\$60,000
To extend the wall north of Preston street on both sides of the Falls to railroad lines.	64,000
To continue dredging the Falls.....	30,000
Total	<u>\$154,000</u>

JAIL.

The expenses of the Jail for 1887 were \$60,999.65, leaving an unexpended balance of \$1,500 of the amount appropriated for its maintenance. The receipts were \$2,037.34, only \$969.69 being from prison labor; the remainder, \$1,067.65 was for the United States docket. It must not, however, be understood from this that the prisoners were all idle. All repairs to the Jail and buildings connected therewith, in addition to the construction of a new laundry building, was the work of the inmates. The number of commitments during the year was nine thousand eight hundred and ninety-eight, and the daily average of prisoners four hundred and fifty-two. The number committed for drunkenness and minor offences was seven thousand five hundred and eighty-four. It will thus be seen that the larger number of prisoners belong to the bummer class, who,

being arrested for some petty offence, are sent to jail for thirty days in default of payment of a fine of one dollar and costs, amounting to \$3.70. It would be cheaper for the city to pay this fine than support the patient for the term of his confinement; in many cases, however, it would be a continuous payment, as the love of drink often brings them back on the day of their release. A large field is here offered to the philanthropist in devising some system of reforming this unfortunate class. The jail building is in good condition with the exception of the roof, for the repair of which the warden asks an appropriation of \$6,000. This institution is most economically and admirably managed; for many years it has been a model prison, and those citizens who take an interest in such subjects would be well repaid by an inspection of the Baltimore City Jail.

HEALTH DEPARTMENT.

The cost of this department for the year 1887 was \$56,752.91, and for the Quarantine Hospital \$17,973.33; in 1886 it was \$58,434.91, and for Quarantine \$19,548.02.

Number of deaths from all diseases in 1887 was				8,372
“	“	“	1886	8,339
“	“	“	1885	8,153
“	“	“	1884	8,293
“	“	“	1883	9,380
“	“	“	1882	8,923
“	“	“	1881	8,816
“	“	“	1880	8,043

The number of births reported for the year 1887 was 9,021. There were doubtless a great many more births, for while the number of deaths is accurately ascertained, it is impossible to get a proper record of births. The death rate in Baltimore for 1887 was only 19.16 per thousand, a lower rate of mortality than prevails in any city in Europe or America. It has been exempt during ten years from any kind of epidemic disease, and its now widely known healthfulness, comparatively mild climate, rare social attractions and proximity to Washington, has already commended it to strangers from all parts of the country as a delightful place of temporary sojournment. The health officer refers to the good effect produced by the plumbing law, the enforcement of which is now generally acquiesced in by the public. He also refers to the necessity for the passage of an ordinance regulating the drainage and surroundings of new buildings, frequently rows of houses being built before the streets are properly graded, or the land on which the buildings are erected drained. Especial attention is also directed to the necessity for providing increased accommodation for the insane. There are now one hundred and eighty-six patients at Mount Hope and one hundred and one at Spring Grove Asylums.

For the city patients the city pays \$150 per annum each at these institutions. Our own asylum at Bay-view, where the patients are just as comfortable and equally as well cared for at a cost to the city of about one-half of the amount paid at the two asylums above

referred to, has now its full complement of patients. The amount paid in 1887 to Mount Hope and Spring Grove was \$39,000. It will be necessary to provide additional accommodations at Bayview for at least 200 patients.

The Assistant Health Officer, Dr. McShane, who has especial charge of keeping clean the sewers of the city, gives full details of the work done in this connection. He also directs attention to the necessity of preventing the sale of unsound meat and impure milk. In other cities a careful inspection of such articles is provided for; this is a matter for State Legislation. The reports of the Health Department are very full and in detail. The vital statistics therein given are interesting and instructive. These statistics are kept in the most accurate manner and weekly sent out to all cities in Europe and America.

QUARANTINE DEPARTMENT.

The report of Dr. Heiskell states the number of vessels boarded during the year was 555, of which 281 were steamers. The quarantine fees collected and returned to the City Treasury amounted to \$4,847.19. The health of the port may be realized when it is known that only 3 patients were treated during the year, 1 for small pox and 2 for typhus fever. Attention is called to the want of some repairs at the Pest Hospital at the old Quarantine station, and an addition to the new building at Hawkins' Point. So healthy has been our city

for many years that even the necessity for keeping our Pest Hospital in good order has been neglected.

COMMISSIONERS FOR OPENING STREETS.

The report gives a list of all streets and alleys opened and closed and in process of condemnation during the past year, with detailed accounts of damages and benefits. It also suggests the repeal of Ordinance 94, of 1883, entitled "An ordinance to condemn and close Kirby's or Dorsey's lane, from Lanvale street to the property of the Harlem Stage Company." Since its passage an ordinance has been passed to condemn and open an alley twelve feet wide in the centre of this lane, also to condemn and close all that part of Kirby's or Dorsey's lane, excepting twelve feet in the centre thereof, between Lanvale street and the Harlem Stage Company, thus making said Ordinance No. 94, approved October 20th, 1883, impracticable. It also recommends that, in cases of sheds and other similar obstructions in the beds of streets in process of opening, of insignificant value, the Commissioners be given power to use their discretion in selling at private or public sale, and thus avoid the expense, in many cases often far more than the value of the goods sold, of advertising and a public auction. It also recommends the amendment of Article 47, Section 7, City Code, by authorizing the acceptance of a surrender in writing from the owner or owners, if the Commissioners see proper, of the whole lot, in cases where a part of a lot only is taken in a street condemnation, although the city is com-

pelled to pay damages for the whole lot. In such cases the balance of the lot is now left in possession of the owner, although the city has actually paid for all of it. It will also be necessary to give them power to give a deed of the same.

PARK COMMISSION.

This Commission has now under its charge the following parks, in the maintenance of which the amounts hereafter stated have been expended during the present year. The report gives a detailed statement of the work done at each park :

Druid Hill Park.....	\$67,606 32
Patterson Park.....	16,047 29
Federal Hill Park.....	5,789 63
Riverside Park.....	3,996 65
Johnston Square.....	2,851 43
Collington Square.....	999 13
Frick's Triangle.....	1,000 00
Total.....	\$98,290 45

The amount required for the support of Druid Hill and Patterson Park, is derived from the tax on the City Passenger Railways; the others are supported by direct taxation. As the revenues from the railroads increase with the growth of the city, they can be gradually extended to the maintenance of other parks in charge of the Commission, and to that extent relieve the tax levy. This can be done when the large amount now annually set aside for the sinking fund is no

longer required by the redemption of the Park stock. In 1890, \$555,566.25 of the original park loan is due. There is already in the sinking fund, an amount sufficient for its redemption; this will relieve the revenue from the Passenger Railroad Companies to the extent of \$33,333.00, which amount added to the present revenue will be more than sufficient to maintain all the parks in charge of the Commission. The revenue derived from the railways in 1887 was \$132,167.27.

The report asks for an appropriation of \$3,000 to complete the improvement of Collington Square. I recommend that it be complied with. No section of the city is more rapidly improving, and the effect of the small amount already expended on this square is seen in the rows of buildings since erected in its neighborhood. The improvement of the eastern addition to Patterson's Park should certainly be proceeded with as rapidly as practicable. It has been delayed by the work on the Harford run sewer, and requires the construction of Ogier's run sewer, referred to in another part of this message, before it can be finally completed. The new conservatory at Druid Hill, now rapidly approaching completion, will greatly add to its many attractions. The magnificent Southdowns maintained by the Park Commission at Druid Hill, the ram lambs of which are annually sold, has already the reputation of being one of the purest bred and handsomest flocks of sheep in the country. It is desirable that an act of the Legislature should be passed extending the powers of the Park Commission to make regulations

for Druid Hill and Patterson Parks to all the parks now under its control.

The amount of revenue derived from the City passenger railroads in 1887 was \$132,167.27, of which \$16,468.65 was paid to the sinking fund, and \$41,333.96 was required to pay the interest on the park stock, leaving, as applicable to the maintenance of Druid Hill and Patterson Park, \$72,664.66.

LAW DEPARTMENT.

The law officers report the following cases as the only important litigation now pending in the courts, to which the City is a party :

1st. The suit of the Mayor and City Council against the Canton Company, for the tax on its capital stock for the years 1880, 1881, 1882 and 1883. This case is now pending in the Baltimore City Court, to which it was remanded by the Court of Appeals for a new trial. The amount claimed by the City to be due it in this case is about \$48,000.00, including interest to January 1st, 1888. The principal, of course, still bears interest. Since the case came from the Court of Appeals the defendant has filed amended pleas with the hope of raising other points than those already decided against it. The case will be tried at the present January term of the court, so that if an appeal is taken it may be disposed of at the June term of the Court of Appeals.

2d. Suits have been brought against the Union Passenger Railway Company, the Citizens' Passenger Railway Company, the North Baltimore Passenger Railway Company, and the Baltimore and York Road Company, to recover from those companies the amounts claimed by the City to be still due to it for Park tax, and which have not heretofore been paid to the City, because the companies claim that said sums represent the amounts received by them from travel outside the city limits. Some of these cases have already been set for trial, and all the others will be set for early days, and all the cases will be tried at the present January term of the Court, in order that any appeals which may be taken may be disposed of at the June term of the Court of Appeals.

The position which the City maintains is that it is entitled to its nine per cent. of the fare of every passenger who rides any distance, however short, within the city limits, although he may ride beyond the city limits and the Company receive one fare for the whole ride. If the position of the city is maintained, a considerable sum of money will be received by it in respect of the past, and in the future the receipts of Park tax will be much augmented.

EXAMINATION OF TITLES.

An important division of the Law department is that of the Examiner of Titles. His report is herewith submitted. It gives a list of all the streets directed to be opened by the Mayor and City Council, the titles of

property in the line of which have been examined in 1887. He suggests "that the Commissioners for Opening Streets should have the necessary authority, in all cases where the question of dedication is determined adversely to the city, to assess and distribute among parties benefitted by the opening or widening of any street, lane or alley the damage to be awarded for the lot so determined not to be dedicated. As the law now stands, the city pays all such damages; the parties benefitted should pay the whole, and the city none." He also suggests that the city should have the right to grade, pave and curb any of the newly opened streets, at any time after the damages and benefits have been awarded and assessed, and any of them have been collected and paid, without waiting until all damages have been paid to the parties entitled, it being reasonably certain that the street will go through, and litigation may protract the payment of damages, to the great inconvenience, not only of the city itself, but also to the owners interested in the opening of the street.

SUPERINTENDENT OF LAMPS AND INSPECTOR OF METERS.

This office has charge of all meters connected with lighting the city and the inspection of gas meters. The number of gas lamps used for street lighting, is five thousand two hundred and seventy-seven, of electric lights, five hundred and thirty-one, and of gasoline lamps, eight hundred and forty-one. During 1887 until November 1st, the price of gas was fifty cents per thousand feet where there was competition, and \$1.00

per thousand elsewhere. After November 1st, until January 1st, 1888, the price of gas was \$1.50 per thousand. After January 1st, 1888, the price of gas will be \$1.25 per thousand for street lighting, including the markets, parks, bridges and Washington monument, and \$1.50 per thousand for all municipal buildings. Prior to June 1st, 1887, the cost of electric light was seventy cents per lamp per night; since then it has been reduced to fifty cents. The cost of gasoline lamps is \$1.50 per month each. All city lamps are now lighted every night. There is no contract with either the gas or electric light companies. There are one hundred and four lamplighters, paid \$8.00 per week each, and five district superintendents at \$12.50 per week each.

Cost of electric light for 1887 was.....	\$107,087 80
Cost of gas light for 1887 was.....	82,618 10
Cost of gasoline supplies, including repairs	17,917 15
Cost of lamp pillars, burners, lamps, etc.	

and repairs.....	12,146 66
One hundred and four lamplighters at \$416	
per annum each.....	43,264 00
Five superintendents at \$650 per annum	
each.....	3,250 00

Total expense of lighting the city for 1887. \$266,283 71

The cost in 1888 will be larger, for the price of gas is much higher, and the number of lights will increase with the growth of Baltimore.

The amount expended for signs with name of streets, over two thousand of which were put up during the

year, on corners and lamps, was \$2,101.44. The revenues of the department, from inspection of meters was, \$3,773.25, and amount collected from repairs of lamps, \$131.80. It will thus be seen that lighting a large city is an expensive necessity.

GAS AND ILLUMINATING OILS.

The wisdom of providing for the inspection of these oils continues to be vindicated by the reports of this department. In 1878 there were ninety-one accidents from lamp explosions; fifty persons were burned and fifteen killed. In 1879 there were forty-eight accidents; twenty-six persons burned and six killed. In that year the ordinance providing for an inspection of illuminating oils was passed; the following year there were but two fatal accidents, and in 1884 only two persons were burned by exploding oil, and one death. In 1886, out of five thousand eight hundred and fifty-one samples of oil inspected, only twenty-one were condemned as dangerous. In 1887, six thousand two hundred and four samples were inspected and none condemned. There were only seven cases of lamp explosions brought to the notice of the department, in each of which investigation indicated carelessness in the handling of the lamp, as the oil proved, when tested, to be above the standard required by the ordinance. The Inspector reports the illuminating gas furnished by the gas companies to have been above the required standard of sixteen candles. In cases where complaints were made, the cause was found to be either defective burners or want of proper pressure.

Attention is again called to the necessity for the purchase of a new apparatus for testing the quality of gas. The instruments now used, were purchased in 1860, and are now not only of inferior design, but worn out with service.

CITY LIBRARY.

The report of the Librarian is herewith submitted. The cost of stationery for all the departments was \$7,676.76, exclusive of the Water Department, \$944.05, which it pays. This department is now the custodian of all books and plats of street opening, which are carefully preserved and often furnish valuable information. Many of the old plats require repairing, especially the copy of Poppleton's plat. Provision should be made for this purpose. The exchanges with all large cities in this country and Europe are regularly kept up, and the library is already a most useful and interesting department of the municipal government.

WATER DEPARTMENT.

The net revenue from water rents, meter supplies, &c., for 1887, after deducting \$32,020.66 discount on 1887 water rents, was \$696,345.30. In 1886 it was \$656,367.42, an increase for the year of \$39,977.88. The water tax collected by the city amounted to \$50,421.20. The working expenses of the department during the year were \$106,694.38. The interest paid from its revenue on water stock were \$472,630.00. The number of new supplies put in during the year was three thousand six

hundred and sixty-nine ; length of mains laid, twenty-four miles ; new fire plugs, seventy-two ; total number of plugs in city, one thousand and sixty-two ; fourteen pumps were repaired, twenty-one removed, and seven wells filled up ; number of drinking fountains in city, one hundred and twenty-six, of which one hundred and three are for combined use of men and horses ; new meters, seventy-four ; meters withdrawn and indicators substituted, seven ; number of meters in city, seven hundred and eighty-four ; number of indicators on elevators, two hundred and thirty-eight : quantity of water registered by meters and indicators during year, one billion four hundred and eighty-one million, seven hundred and sixty-two thousand, five hundred and forty-seven gallons ; increase over 1886, one hundred and fifty-one million, one hundred and thirty-five thousand nine hundred and ninety-nine gallons. The work on Lake Clifton has progressed satisfactorily. The amount expended on this lake during the year was \$80,923.40.

The Board proposes to submit for the consideration of the Council, a revised schedule of water rates, based upon a uniform reduction to all classes of water consumers, which, while not impairing its ability to meet the fixed expenses and current requirements of the Department, will afford relief to water takers. Similar reductions can be made in the near future as the revenue and needs of the service justify, until the water rates become merely nominal. The increased use of water and economical management of the Department

has again enabled it to pay all interest on the water loans and meet current expenses. The growth of the city requiring further high surface water supply, the Board are now preparing to construct another high service reservoir. It will be so located as to furnish water to all the territory now contemplated in the proposed city extension. Work will commence on it during the coming summer.

An ordinance has been prepared and will be submitted by the Water Board recommending a reduction in meter rates from eight cents per thousand gallons to six cents, and for steam engines from five dollars per horse-power to three dollars, to take effect from April 1st, 1888; also a reduction for water used for domestic purposes for the year 1889.

BAYVIEW ASYLUM.

On January 1, 1887, there were one thousand two hundred and sixteen persons in this institution, two thousand two hundred and twenty-three were admitted and forty born, and two hundred and thirty-five died. Thirty-four hundred and thirty-nine enjoyed its benefits. In 1886 the number was three thousand two hundred and seventy-three. Of those admitted one thousand one hundred and sixty-two were native, and one thousand and sixty-one foreign born. The cost of maintenance was \$79,995.82, and the receipts paid to City Treasury, \$3,965.46. The average daily number of inmates was one thousand and forty-four and six-twelfths, and average cost of annual maintenance,

\$72.79. It is an admirably, economically and most humanely managed institution, and the members of the Board of Visitors are entitled to great credit for their services. The reputation it has of being well kept and comfortable, keeps it filled during the winter months. It is now crowded to repletion. Many of these inmates belong to other States. It would be cheaper to follow the plan adopted in Massachusetts, of paying their passage home, than supporting them here.

The Insane Department has two hundred and seventy-eight inmates, as many as it can comfortably accommodate. Some measure must be adopted for building additional quarters for this class of unfortunates. The difference in cost between supporting them here and at Spring Grove or Mount Hope, would soon repay the necessary outlay.

CITY EXTENSION.

It is time to extend the city limits. We have outgrown the old boundaries established seventy odd years ago, and flowed over into the county. Those living across our borders are, in great part, our own people, with interests, daily residence, and associations in the city. They enjoy its expensive and plentiful supply of water and all its advantages for trade and professional employments. We ask them to join in working out our great future. We offer the benefits of a well-organized municipal government, water, fire, sanitary, police, fire-alarm telegraph, street opening, repairing and cleaning departments. We do not ask an increase

of tax-rate or assessment, as now enjoyed, until after the year 1900. We offer to purchase their school and engine houses, to expend, at least, all the money collected through taxation of their property in improving their territory, and a full and equal representation in a city government prepared to extend to their section just, equitable and liberal treatment when it becomes part of Baltimore. A bill containing such provisions will be presented to the Legislature, and if passed, submitted to a vote of our neighbors in the belt.

RECOMMENDATIONS.

STREET OPENING AND WIDENING.

I recommend that Fayette street be widened from Calvert to Charles street. The cost of this widening would be heavy, but its necessity must be admitted by all. Something must be done to relieve Baltimore street and facilitate east and west travel. New York was compelled at enormous cost, in the widening of lateral streets, to relieve Broadway, and Baltimore will be called upon to do the same thing in connection with its principal thoroughfare. In 30 years from now, if the city continues to increase in the present ratio, it will have more than one million of people. How are they going to get through Baltimore, Lombard and Pratt streets, now daily almost blocked for many hours around mid-day? Even an underground railroad will be small relief when our population is trebled. I thought at one time, and earnestly made the suggestion accompanied with all the necessary plans in detail,

showing that the reclaimed land would largely reimburse the outlay, in my first message to the City Council in 1876; that the extension of Camden street across the Basin would be the proper way to accomplish this result; nor do I doubt now the correctness of my judgment in this connection. It would only be doing what our predecessors did when they moved the water front of the city, first from Water street to Lombard and subsequently from Lombard to Pratt streets, the latter in the face of such determined opposition, that only the enterprise and far-sightedness of a class of men who in 1826 invested money in a project to build a railroad over the Alleghanies, could overcome, thus giving Lombard and Pratt streets as east and west thoroughfares. The men of those days realized that such thoroughfares were essential if Baltimore was to become a great city, that to get an easy grade it was necessary to go South of Baltimore street, even if they went into the water and had to, as was then charged, fill up some of the harbor. They knew there would be plenty of harbor left on the twelve miles of river and one hundred and twenty miles of bay shore south of Pratt street. The suggestion, however, was too much for our people, and the project will probably never more be heard of, at least during the present generation, or until the people of Baltimore realize the great future of the city and the advantage of helping east as well as west Baltimore. But we must nevertheless relieve Baltimore street in some way; the only thing left is to go north, take the bad grade, and widen Fayette street. That it will be expensive we know, and

realize also that appearances will doubtless have to be sacrificed to economy and the street widened on the north side from Calvert to Charles, and on the south side from Charles to Liberty. It would be better to widen it on the south side. The ordinance for the opening of Douglas street has passed the Council, but will probably not be carried into effect on account of the very large cost, probably between four and five hundred thousand dollars, which the City Council will long hesitate before putting in the annual budget. It would nevertheless be a great general improvement and should be carried out. The widening of Baltimore street at the so-called "narrows" east of the bridge, is also demanded as a general improvement. These three improvements, Fayette street, Douglas street, and the Baltimore street narrows, are in my judgment so necessary for the public good that the payment of the city's portion of their cost by the issue of city stock is not unworthy of consideration. St. Paul street should also be widened on the west side from Lexington street to Dark alley; this could be done at comparatively small expense, and would certainly be a great public convenience. The street is already overcrowded here during many hours of the day. That part of St. Paul street from Saratoga to Centre, should be re-modeled by lowering somewhat the west side of the paved street. The cost of this would be small, and it would, if made a desirable driving street, greatly relieve Charles and Calvert steets.

It would certainly be a great advantage to widen

Light street by extending its east side from twenty-five to fifty feet into the Basin.

SOUTHWEST OR WILKENS PARK.

An Act of the Legislature was passed in 1886, authorizing the acquirement by the city of land in the southwestern section to be used as a park. I am in favor of the project. Other cities are securing land for such purposes, and Baltimore, in view of its rapid growth and certain future, should do likewise. The land proposed in this connection belongs to the estate of the late William Wilkens, and lies south of Wilkens avenue, binding thereon about 781 feet, between Pulaski and Bentalou streets with a depth of 668 feet 7 inches to the B. & O. R. R. The tract contains $11\frac{1}{2}$ acres and is offered at \$45,000. The objection to the Carroll land also spoken of in this connection, is, to gain access to it would be across a railroad.

RAILROAD TRACKS ON NORTH STREET.

The railroad tracks on North street should be removed. I find that in 1886 a letter from the President of the Pennsylvania Railroad Company to my predecessor indicated a willingness to confer with the city on this subject. I shall at once open negotiations with this company in this connection, and shall report the result thereof to your Honorable Body.

UNDER-GROUND WIRES.

The telegraph, telephone and electric light wires should go underground. As this will necessitate the

opening of our streets, it might be as well to await the result of the work now being done in other cities in this connection, so that a proper plan may be adopted and our citizens be inconvenienced by only one tearing up. Should this work be commenced, it might be limited to the central portion of the city until the experiment had proved a success.

TANEY STATUE.

Suitable resolutions should be passed expressing the thanks of the Mayor and City Council to Mr. William T. Walters for his liberality in presenting to the city a bronze statue of the great Chief Justice Taney.

DEPARTMENT REPORTS.

A custom prevails of each Department giving out the contract for printing its report. The voluminous character of many of these reports makes the cost of such printing an expensive item. They all are required to be printed by the City Printer as a part of the Appendix. Having them printed, therefore, by other parties, is making the city pay twice over for the same work. This can be avoided either by giving the printing of all the reports to the City Printer, or else letting the Librarian advertise for proposals for printing all reports, and award it to the lowest bidder. One hundred and fifty copies of each report are now printed in pamphlet form; this I consider a waste, as nearly every Department, in addition thereto, has its own report printed in sufficient numbers to meet the demand. These one hundred and

fifty copies are sent to the Library and become just so much waste paper.

CITY PROPERTY.

During my former administration the Finance Commission caused property books to be made, in which all property belonging to the city was recorded, with references to the titles and plats of each lot. These books have been of much value, and are constantly referred to. My purpose is to recommend to the Commissioners to have these books made up to the present time. The city is a large owner of real estate, and by giving proper attention thereto, a considerable revenue can be raised therefrom. There is a class of property, which having been advertised and offered at public sale, fails to realize a sum sufficient to meet the taxes and costs chargeable thereto ; it is consequently withdrawn, and, unless redeemed within a year and a day from date of sale, becomes vested in the city and no longer taxable. Such property should at once be made to produce some revenue by collecting rent from the occupant. Another source of revenue should be derived from streets in process of opening. After all benefits have been collected from property condemned for this purpose, and nearly all damages paid, it often happens that one or two pieces of land, through a defective title or from some other cause, delays the opening for many months, sometimes for a year or two, the damages upon which cannot be paid until the legal obstacles are removed ; the remaining condemned property in the meantime has been acquired and paid for by the city ; it thus is not

only taken from the tax lists, but continues to be used by the occupant free of rent. The city in such cases should at once take possession and receive rental from the occupant until the proposed street is opened. Again, in the process of street opening, the material in buildings condemned is sold. When the damages on the lots are paid, the purchaser takes possession of the materials, either removes the building at once, or else collects rent from the occupant until the buildings are actually required to be taken down. When building material is sold, the delivery to the purchaser should be made when all the claims for damages are paid and the street ready to be opened ; until then the buildings should remain and the city collect the rental for occupancy. The city is the owner of a number of pieces of unimproved and improved property, some of which is located on East Falls avenue, Wilkens avenue, Gilmor, Monroe and Clement streets, the latter being the old City Yard, all unproductive with the exception of that on East Falls avenue. The Wilkens avenue property was acquired some years since, when that avenue was condemned and opened ; the title is defective but can be corrected. The Gilmor street property is a part of the bed of the old Windsor Mill road, and extends from Gilmor to Mount street, thence crossing Mount street to Fulton avenue. The Monroe street property is on the corner of Monroe and Hollins streets, and was leased for the purpose of erecting a public school thereon. Only part of the lot was used ; the remainder is about 137 feet by 150, subject to an irredeemable rent of \$3 per foot. This ground should either be utilized,

sold or sub-let, and the city thus relieved from paying an unnecessary rent. I think there must yet remain some of the property of the old Baltimore Water Company belonging to the city, at least this matter should be investigated. All of this property, which is useless for municipal purposes, should be looked after, and put in condition to be sold, and thus added to the taxable basis. Where the titles are defective, proper proceedings should be taken to correct such such defects. I think at least \$50,000 might be realized from this source. At the final meeting of the Commissioners of Finance during my last administration, the purchase of all redeemable ground rents paid by the city was recommended as an investment for the sinking fund. Since then these rents have been purchased to the extent of \$95,355.79; there yet remains \$35,451.66 of such old redeemable rents to be purchased. New purchaseable rents have been created to the extent of \$10,000.

If the Mayor was authorized to employ a competent person to take charge of the city property thus referred, to, paying him a reasonable salary therefor, I am sure it would result in realizing a very acceptable addition to the receipts of the city.

SOURCES OF MUNICIPAL REVENUE.

The cost of municipal governments in this country is constantly increasing. The people of a large city demand every improvement which increases the comfort of living and affords better protection to property. An

efficient fire department, clean and well paved streets, plenty of water, a large police force, an expensive system of public schools, public parks and squares, sewers, large municipal buildings, all night lighting by gas and electric light, and constant improvement of the harbor—all these have become expensive luxuries. The question is how to pay for them. We have the following sources of revenue, viz.: taxation on real and personal property, rents from market houses and wharves, water rents, investments in interest bearing securities—largely reduced by the failure of the B. & O. to pay its dividend—a small amount from licenses on carts and wagons kept for hire, and a rental of the franchise of our streets to the City Passenger Railroad Companies. We have given away the use of our streets to gas, electric light, telegraph and telephone companies. Including the interest on the funded debt, it costs about \$4,600,000 to pay municipal expenses. We have a taxable basis of about \$265,000,000, and a tax rate in 1887 of \$1.60. Our tax rate would be lower if we only received all the revenue to which we are justly entitled, a revenue enjoyed by every other city in the country, but which by a strange anomaly now goes into the State Treasury. I refer to trade licenses. These are paid for the privilege of doing business in the city, not in the State, and we who confer the privileges, advantages and protection, ought to have the money paid for them.

The amount received by Chicago for saloon licenses alone in 1885, amounted to \$1,652,756.19. By St. Louis in 1885 from liquor saloons, \$722,847.42. By Boston

from liquor licenses in 1885, \$511,830.00. By San Francisco in 1885 from general licenses, \$343,960.00, of which liquor licenses amounted to \$214,180.00, while Baltimore derived in 1887 only \$43,000.00, and that mainly from wagons and carts. The revenue derived by the State of Maryland from general licenses in the city of Baltimore in 1886, was \$297,319.89, of which those from traders, liquor and oyster houses alone amounted to \$253,066.46. Had this revenue been paid to Baltimore, where it rightly belongs, a right which every other city in the United States recognizes, it would make a reduction of about twenty cents in the tax levy. It has often been a matter of surprise why, with the admitted economy of the municipal government, our taxes are not lower. This is the main reason. I hope this subject will be considered by those who represent the city in the Legislature, and a proper appeal in this connection be made to the justice of the State.

MARYLAND INSTITUTE.

I recommend a continuance of the usual appropriations to the Maryland Institute. It is doing good work and its school of art and design is most creditable to the city. Several hundred persons, young men and women, are here availing themselves of the opportunities offered for obtaining instruction in architectural, mechanical and artistic drawing. No similar institution in the country has more thoroughly trained or more competent instructors.

DRINKING FOUNTAINS.

The number of drinking fountains should be increased, they dispense comfort to man and beast, and are great aids in the promotion of temperance.

CHESAPEAKE AND DELAWARE CANAL.

I hope a strong and earnest effort will be made by our Representatives in Congress to urge upon that body the necessity for constructing the ship canal. I am sure our trade organizations will unite with the municipal authorities in this recommendation. No better use could be made of a portion of the "surplus."

BOARD OF POLICE.

The Mayor should be *ex-officio*, a member of the Board of Police. The City pays over \$700,000 annually for the maintenance of the force, and ought to have a direct supervision over its expenditures. Mayors Vansant, Kane, Whyte and Hodges have all earnestly made this same recommendation.

All disbursements of money made by the Board should be upon itemized warrants drawn upon the Comptroller and approved by the Mayor, and all stationery should be supplied in the same manner as required by ordinance to be furnished to other departments of the municipal government.

SCHOOL BOARD.

In my judgment the present system of selecting members of the School Board in a joint convention of

the two Branches of the City Council, is wrong. The Board should consist of nine members, appointed from the City at large by the Mayor, and confirmed by the Council. This subject was ably reviewed in the report of a commission in 1887, of which the Hon. George William Brown was chairman, and in which the defects of the present system were fully stated. All efforts to make this change seems hopeless. The Council should, however, pass an ordinance providing that all proposals for supplies needed for the schools should be opened at the City Hall, and the contract awarded by the Mayor, Comptroller and Register.

ASSESSMENT OF PROPERTY.

It is hoped that the Legislature will pass an act for the better assessment of property in Baltimore. A bill will be prepared, to be submitted to that body, should it take no other action in this connection, providing for a permanent board of three assessors, to be appointed by the Mayor and confirmed by the Council, to have authority at certain seasons in the year, with consent of the Mayor, to appoint an additional force of assessors, who shall annually re-assess all the real and personal property in this city. The re-assessment, such as it is, of real estate is now done by the Appeal Tax Court with two assessors, the result being large abatements and few additions for increased value. The work of assessing personal property is mainly imposed upon the bailiffs, in addition to their other duties. There has been no general re-assessment of property in Baltimore for over ten years.

IMPROVEMENTS.

I have herein referred to certain improvements, now necessary in my judgment for the prosperity of the city and the comfort of the people. The aggregate cost thereof is so large that no Council will provide for them in the annual tax levy, nor would the people consent to assume such a burden in addition to the present tax rate.

I have shown how, in 1890, we can afford to add, if necessary, over six millions to the city debt without increasing the present interest charge. An enabling act was passed in 1882 by the Legislature, authorizing the issue of bonds to the extent of five millions of dollars for public improvements. An ordinance will be prepared and submitted hereafter to the City Council, providing for the issue of four millions of improvement bonds, the proceeds of which, or so much thereof as is required, to be applied as follows :

Douglas street opening, city's portion...	\$ 550,000 00
Fayette street windening, " ...	550,000 00
East Baltimore street "narrows" widening, city's portion	250,000 00
Improved pavements.....	500,000 00
Sewers for storm water.....	1,450,000 00
Southwest Park and improvement thereof.	100,000 00
Patterson Park improvement.....	100,000 00
School-houses	500,000 00
Total	\$4,000,000 00

This ordinance provides that it shall be submitted to a vote of the people in April next, so that, if adopted, the work can be at once commenced. It will be almost two years before any of the amount will be required for widening either Fayette street or the "narrows," and at least two years before all the sewers can be finished. The ordinance will also provide that not more than one hundred and fifty thousand dollars shall be expended for school-houses for any one year during the first four years from its passage, that the interest on such of the bonds as may be issued for the purchase and improvement of Southwest Park, and the Patterson Park improvement, shall be a charge on the revenue derived from the City Passenger Railways, and that a sinking fund shall be created for payment of the bonds at maturity. That these bonds shall bear interest at the rate of four per centum per annum; shall be sold for not less than par; be payable forty years after date of issue, and that any premium realized on the sale above par shall be added to the sinking fund.

The ordinance will further provide that so much of the work as is connected with laying any Belgian block pavement, construction of sewers, or improvement of Patterson or Southwest park, shall be done by the city without the interposition of a contractor. The objection to the passage of this ordinance will be, that it is contrary to the "pay as you go policy," and I am not indifferent to the argument that may be made in this connection. On the other hand, the work provided for is of a permanent character, with the exception, per-

haps, of street paving, is for the general good, and will be really of more benefit to those who will be called upon to pay the cost at the maturity of the bonds than to those who have the work done and who will bear their share of the burden in paying the interest and providing the sinking fund. On general principles, street opening should not be paid for with bonds, but such of these improvements as is here provided for are in the centre of the city, the city's portion of the cost thereof can be regarded as especially extended for the general good, and, looking at it in a practical light, in no other way is it probable that either Douglas street will be opened or Fayette street and the "narrows" widened. In regard to improved pavement, all other cities have provided for it by the issue of bonds, and it is certain that Baltimore would have now very few Belgian block pavements if they had been made a charge on the annual tax levy. Nor must it be forgotten that the money expended for these improvements will be with our own mechanics and laborers, to hundreds of whom it will give employment, and that much of it will find its way back to the city treasury in the shape of taxes on the increase of the taxable basis that will undoubtedly result from the improvements above suggested.

CONCLUSION.

I recommend a strict economy in your appropriations for the year 1888, and respectfully suggest that you make the levy as early as practicable, providing for the

necessary expenditures of the city government, then close the books and adjourn. The people expect us to keep down the tax levy. We must not disappoint them.

Very respectfully,

FERDINAND C. LATROBE,

Mayor.

ANNUAL REPORTS

— OF THE —

REGISTER OF THE CITY

— AND OF THE —

COMMISSIONERS OF FINANCE

— TO THE —

Members of the First and Second Branches

— OF THE —

CITY COUNCIL OF BALTIMORE,

For the Fiscal Year Ending December 31, 1887.

REPORT OF
JOHN A. ROBB,
REGISTER OF THE CITY.

REGISTER'S REPORT.

OFFICE OF THE REGISTER OF THE CITY,

BALTIMORE, January 3, 1888.

*To the Honorable the Members of the
First and Second Branches of the City Council:*

GENTLEMEN :

The Register herewith presents "his account of all moneys received and expended by him during the past year;" a "statement of the estimated receipts and payments required for the coming year;" also, tables showing the funded and guaranteed debt of the city as of December 31, 1887, the productive and interest-bearing securities of the city, the unproductive securities, the condition of the sinking fund under his charge for the redemption of the Five Million Loan to the Baltimore and Ohio Railroad Company, and the monthly returns of the "keepers of the standards of weights and measures," the latter required by Ordinance No. 9, of 1881.

The gross receipts into the treasury for
the fiscal year closing December 31,
1887, as shown in tables D and E

are.....\$8,446,439 00

Cash balance December 31, 1886..... 257,615 68

Total amount to be accounted for...\$8,704,054 68

The disbursements for the same period, and shown in the same tables, aggregate.....	\$8,403,929 80
Leaving a balance of cash to credit of the current year.....	300,124 88
	\$8,704,054 68

The following table has been made up from table D, separating the actual receipts and expenses of the city from those items which are merely receipts and disbursements:

RECEIPTS—ACTUAL INCOME.

From City Collector, levy of 1887.....	\$3,131,741 17
“ City Collector, levies of previous years.	1,078,370 99
“ public schools, tuition fees, and J. F. Plummer.....	6,765 94
“ market houses, rent of stalls....	58,287 44
“ wharfage and rent of wharves....	33,560 96
“ general licenses.....	44,609 30
“ auction duties.....	7,431 16
“ Magistrates, Sheriff and Jail....	5,352 80
“ Health and Street Departments..	6,464 79
“ permits for sheds, signs, &c.....	6,415 90
“ Inspector of gas-meters.....	3,905 05
“ Baltimore and Ohio Railroad Com- pany, dividend on stock.....	130,000 00
“ City Commissioner’s Department.	3,617 94
“ Bayview, Mount Hope, and Spring Grove Asylums.....	6,748 46
“ conscience fund.....	150 00
“ aggregate of sundry small items.	1,942 54
Amount carried forward.....	\$4,525,364 44

Amount brought forward. \$4,525,364 44

RECEIPTS—NOT INCOME.

From Baltimore and Ohio Railroad Company and Five Million Loan Sinking Fund, to pay interest on Five Million Loan.	300,000 00
“ State of Maryland for public schools.	147,402 62
“ city passenger railway companies, for Park Sinking Fund.	18,168 65
“ sale of stock for completion of Harford Run sewer.	97,582 00
“ sale of Jones’ Falls $3\frac{6.5}{100}$ per cent. stock.	140,051 50
“ city passenger railway companies, for Park Board.	113,998 62
“ Park Board, sales of stock, &c.	5,651 45
“ Park Board, to pay interest on Park Stock and Patterson Park Loan.	41,333 96
“ Water Board, to pay interest on Water Loans.	472,630 00
“ Western Maryland Railroad Company, interest on $3\frac{1}{4}$ and 4 per cent. Loans.	82,740 00
“ Water Board, from rents.	745,445 96
“ unclaimed damages for opening streets	716 50
“ tax sales.	1,930 68
“ Water Loan of 1922.	245 00
“ temporary loans.	1,510,000 00
“ tax on city loans, collected for State of Maryland.	24,616 92
Amount carried forward.	\$8,227,878 30

Amount brought forward.....	\$8,227,878	30
From sales of materials, opening streets..	9,708	74
“ City Collector, opening streets....	148,118	72
“ “ “ paving streets.....	49,309	61
“ “ “ new numbers	10,975	51
“ Improvement of Jones’ Falls, sale of materials.....	448	12
Total receipts.....	\$8,446,439	00

DISBURSEMENTS—EXPENSES OF THE CITY GOVERNMENT.

Interest on the public debt....	\$915,987	18
Expenses of the law courts.....	118,806	50
“ of the jail, magistrates, re- moved cases, judgments, &c.	103,586	72
Public Schools, less amount paid by State of Maryland.....	594,088	87
Expenses of the city poor.....	210,738	64
Harbor Commission	76,357	68
Police Department	702,881	56
Health Department.....	75,559	56
Department of Street Cleaning.....	263,933	67
Fire Department.....	214,226	11
Department Inspector of Buildings.....	100,842	09
“ City Commissioner.....	184,953	25
Expenses of Parks and Squares, exclu- sive of Druid Hill and Patterson Parks.	52,079	98
General Superintendent of Lamps, Gas and Electric Lights.....	221,203	45
City Council—salaries of members, of- ficers, and expenses.....	52,925	12
General Expense Account.....	1,188	84
Amount carried forward	\$3,889,359	22

Amount brought forward	\$3,889,359	22
Care of Masonic Hall and Court House..	3,283	20
“ Court House and grounds.	5,901	81
Expenses of Markets and Market Halls.	5,056	68
Harbor Masters' Commission for collect- ing wharfage	8,408	95
Salaries	72,624	35
City Library—supplies for departments.	7,676	57
Public Printing	812	45
Discount on taxes and temporary loans.	131,698	05
Heating and general care of City Hall..	18,685	04
Mayoralty	1,832	95
Lamp-lighters' salaries	46,514	00
Special appropriations	4,884	80
Transportation to House of Correction.	225	90
Ground rents on city property	4,293	84
City Collector—salaries and expenses...	51,093	83
Elections—City and State	10,662	77
Supervisors of Elections	684	51
Maryland Institute School of Design... .	6,000	00
Fire-plugs and fountains	4,000	00
Refunded taxes	3,518	36
Enoch Pratt Free Library	50,000	00
Ice-boat <i>Maryland</i>	10,000	00
Insurance of Bayview Asylum	1,305	00
Lot for Colored High and Grammar School	14,000	00
Lot for Engine House in West Baltimore.	3,000	00
State tax on city loans	13,417	71
City's proportion for opening and closing streets	165,058	42
Aggregate of sundry small items	7,358	82

Total expenses of city government .. \$4,541,357 23

DISBURSEMENTS—NOT EXPENSES.

Interest on Five Million Loan for Baltimore and Ohio Railroad Company....	\$300,000 00
Interest on Water Loans for Water Board.	472,630 00
Interest on Park Loans for Park Board.	41,333 96
Interest for Western Maryland Railroad Company on 4 and 3½ per cent. Loans.	82,740 00
Park Sinking Fund.....	18,168 65
Improvement of Jones' Falls.....	145,973 03
Improvement of Harford Run.....	137,674 40
Paving Loan of 1920.....	6,256 33
Park Board.....	124,987 57
Unclaimed damages for opening streets.	749 21
Tax sales.....	957 41
Water Board.....	813,505 15
Water Loan 1922.....	851 00
Temporary Loans.....	1,310,000 00
Tax on city stock collected for State of Maryland.....	24,616 92
Suspense account.....	1,627 50
Renumbering houses.....	17,787 00
Opening and paving streets.....	215,311 82
Public schools' tax from State of Maryland.....	147,402 62
Total disbursements.....	\$8,403,929 80

ESTIMATES FOR THE CURRENT YEAR.

The estimates of requirements for the current year as exhibited in detail in Statement B are.....	\$5,088,120 53
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Amount brought forward.....	\$5,088,120 53
From taxes in arrear and other specified sources as per Statement C the receipts are estimated at.....	1,434,750 00
Leaving the amount to be levied for....	\$3,653,370 53
The estimates of this Department for the year 1887 was.....	2,930,373 29
Increase.....	\$722,997 24

FUNDED AND GUARANTEED DEBT.

The aggregate of the funded and guaranteed debt on December 31, 1887, is.....\$36,369,176 15
 December 31, 1886, it was. 34,955,289 64

Increase during the year.. \$1,413,886 51

And is thus accounted for:

There were issued, by authorization of Ordinance No. 11, of 1886, in aid of the Western Maryland Railroad Co., city bonds bearing $3\frac{1}{4}$ per cent. interest per annum, and having forty years to run, amounting to..... \$1,704,000 00

And by Ordinance No. 7, of 1886, authorizing the sale of \$200,000 of city bonds for the improvement of Jones' Falls, and bearing interest at the rate of $3\frac{6}{10}\frac{5}{10}$ per cent. per annum, there was sold during the year..... 135,000 00

At a premium of \$5,051.50.

Amount carried forward..... \$1,839,000 00

Amount brought forward	\$1,839,000 00
And by Ordinance No. 115, of 1884, authorizing the issue of \$350,000 of city bonds for the completion of Har- ford Run sewer, interest at 4 per cent., due in 1904.....	90,000 00
Premium realized, \$7,575.00	
Western Maryland Railroad bonds and certificates, first and second mortgage, not yet presented for redemption	3,290 00
	\$1,932,290 00
Less	
Consolidated 5 per cent. bonds redeemed	\$ 740 00
One million 6 per cent. loan of 1886 redeemed	10,863 49
Valley Railroad loan, 6 per cent. of 1886 redeemed.....	6,800 00
First mortgage bonds of the Western Maryland Rail- road Co. endorsed by the city	200,000 00
Second mortgage bonds of the Western Maryland Railroad Co. endorsed by the city	300,000 00
	\$518,403 49
Net increase in funded and guaranteed debt as above	\$1,413,886 51

The amount realized from the sale of the securities in the Western Maryland Railroad sinking fund, as stated in my report of last year, \$294,320.25, was paid to the Commissioners of Finance January 3, 1887, to be applied as directed in Ordinance No. 11, of 1886.

FIVE MILLION LOAN SINKING FUND.

The value of this sinking fund is \$2,400,800. The increment for the year, amounting to \$134,663.50, was applied to the payment of interest on the Five Million loan, as directed in Ordinance No. 63, of 1881.

I respectfully refer you to the report of the Commissioners of Finance for the condition of the various sinking funds under their charge and belonging to the city, and also to the accompanying tables.

Table A is a statement of the public debt of the city.

Table B is an estimate of requirements for the current fiscal year.

Table C is an estimate of receipts for the current fiscal year.

Table D is a detailed statement of the receipts and disbursements, and showing the appropriations for the various accounts.

Table E shows the aggregate monthly receipts and disbursements.

Table F shows the condition of the Five Million Loan Sinking Fund.

Table H shows the monthly returns from the "keepers of the standards of weights and measures."

Respectfully submitted,

JOHN A. ROBB,

Register of the City.

STATEMENT A.

Statement of the Funded Debt, December 31, 1887.

LOAN.	RATE.	WHEN REDEEMABLE.	AMOUNT.
Consolidated.....	6 per cent.	At pleasure after July 1, 1890	\$7,306,546 22
Public Park.....	6 “	“ “ Sept. 1, 1890	555,566 25
Exempt.....	6 “	“ “ Sept. 1, 1893	410,353 87
Water.....	6 “	“ “ July 1, 1894	263,000 00
“	5 “	“ “ July 1, 1894	3,737,000 00
“	5 “	“ “ July 1, 1916	5,000,000 00
Funding.....	6 “	“ “ July 1, 1900	800,000 00
“	5 “	“ “ July 1, 1916	1,000,000 00
Water.....	4 “	“ “ Nov. 1, 1922	500,000 00
Harford Run Im-			
provement.....	4 “	“ “ Jan. 1, 1920	250,000 00
Paving	4 “	“ “ Nov. 1, 1920	500,000 00
Five Million.....	6 “	January 1, 1890.....	5,000,000 00
Consolidated.....	6 “	September 1, 1893.....	2,211,068 05
Park Improvem't	6 “	January 1, 1895.....	185,723 80
Jones' Falls.	6 “	April 9, 1900.....	800,000 00
“	5 “	“ 9, 1900.....	957,000 00
“	3.65 “	“ 9, 1900.....	455,000 00
“	3 “	“ 9, 1900.....	100,000 00
City Hall.....	6 “	“ 15, 1900.....	1,000,000 00
“	6 “	March 7, 1902.....	500,000 00
W. Md. Railroad.	6 “	January 1, 1902.....	1,000,000 00
Harford Run			
Sewer.....	4 “	November 3, 1904.....	246,700 00
Patterson Park...	4 “	October 1, 1920.....	200,000 00
W. Md. Railroad.	4 “	July 1, 1925.....	684,000 00
“ “	3½ “	January 1, 1927.....	1,704,000 00
Overdue Stock....	6 “	No interest allowed.....	732 00
Water, 1875.....	6 “	“ “	1,840 00
Consolidt'd, 1885.	5 “	“ “	2,725 46
One Million, 1886.	6 “	“ “	2,330 50
Valley R.R., 1886	6 “	“ “	300 00
W. Md. Railroad			
Bonds.....	6 “	“ “	3,290 00
Total funded debt.....			\$85,377,176 15

GUARANTEED DEBT:

Endorsement of W. Md. R. R. 3d Mort-	
gage Bonds.....	\$875,000 00
Endorsement of Union R. R. 1st Mort-	
gage Bonds.....	117,000 00
	992,000 00
Total funded and guaranteed debt....	\$86,369,176 15

Amount brought forward.....		\$36,369,176 15
<i>From which deduct—</i>		
Water Loans of 1894, 1916, and 1922, the interest on which is paid by revenue from water rents.....	\$9,500,000 00	
Park Loans—Interest paid by the Passenger Railway Companies.....	755,566 25	
Western Maryland R.R. 4 per cent. 1925, and 3½ per cent. 1927 Loans, interest paid by Western Maryland Railroad Company.....	2,388,000 00	
Baltimore and Ohio Railroad Company on.....	5,000,000 00	
Union Railroad Company on.....	117,000 00	
Commissioners of Finance, on Western Maryland Railroad 1902 Loan.....	1,000,000 00	
Commissioners of Finance, on Western Maryland 3d Mortgage Bonds.....	875,000 00	
Overdue Stock, no interest allowed.....	6,927 96	
Overdue Western Maryland Railroad Bonds, no interest allowed.....	3,290 00	
		<u>19,645,784 21</u>

Leaving the amount on which interest is paid by taxation at..... \$16,723,391 94

Viz.: \$13,215,391 94 interest, at 6 per cent.

1,957,000 00	“	5	“
996,000 00	“	4	“
455,000 00	“	3.65	“
100,000 00	“	3	“

\$16,723,391 94

ASSETS OF THE CITY.

Productive.

Mortgage on Baltimore and Ohio Railroad Company.....	\$5,000,000 00
Mortgage on Union Railroad Company...	117,000 00
“ on Western Md. Railroad Co....	1,704,000 00
32,500 Shares of Baltimore and Ohio Railroad Company @ par.....	3,250,000 00
Value of sinking funds.....	6,039,241 39
550 Shares Baltimore and Reisterstown Turnpike Stock.....	2,062 50
137 Shares Baltimore and Frederick Turnpike Stock.....	456 66
925 Shares Baltimore and Yorktown Turnpike Stock.....	3,125 00
Market-houses producing a yearly rental of.....	\$50,000 00
Improved wharf property producing a yearly rental of...	38,000 00
Other real estate producing a yearly rental of.....	7,746 76

\$95,746 76

Capitalized @ 6 per cent..... 1,595,779 00

\$17,711,664 55

Amount brought forward..... \$17,711,664 55

Unproductive.

Accrued interest to January 1, 1887, on Western Maryland Railroad Second Mortgage Bonds.....	\$333,000 00
Third Mortgage on Western Maryland Railroad Co....	\$875,000 00
Accrued interest to January 1, 1888.....	892,500 00
	1,767,500 00
Fourth Mortgage on Western Md. Railroad Co.....	1,000,000 00
Accrued interest to January 1, 1888.....	930,000 00
	1,930,000 00
10,000 Shares Valley R. R. Stock, par \$100.	1,000,000 00
7,600 Shares Baltimore and Susquehanna Tidewater Canal, par \$50.....	380,000 00
4,000 Shares Western Maryland Railroad Stock, par \$50.....	200,000 00
130 Shares Baltimore and Havre de Grace Turnpike Stock.....	

Besides other property, such as—

Court Houses, Record Office, City Hall, Jail, Police Stations, Fire Engine Houses and Apparatus, School Houses, Almshouse, Ice-boats, Quarantine Station, Public Parks, &c., valued at...	10,000,000 00
	\$15,610 500 00
	\$33,322,164 55

STATEMENT B.

The following statement exhibits the present liabilities and the estimated expenses of the city to be provided for in the levy for the year 1888:

EXISTING CLAIMS.	
Balance due Water Board....\$	7,457 92
“ “ Park Board....	32 96
“ “ Jones' Falls im- provement ac- count.....	34,121 17
“ “ Completion of Harford Run seweraccount.	10,669 52
“ “ Patterson Park extension ac- count	338 93
Temporary loans from Banks.	815,000 00
Paving certificates maturing during the current year....	5,675 78
	\$873,296 28
Cash balance in bank De- cember 31.....	\$300,124 88
Bolton property, cost.....	415,000 00
	\$715,124 88
	\$158,171 40
Taxes due and uncollected for the year 1887 and pre- vious years.....	\$1,201,743 07
Amount carried forward	\$158,171 40

STATEMENT B—Continued.

Amount brought forward \$158,171 40

*Estimated Requirements for the Fiscal
Year ending December 31, 1888:*

HEALTH DEPARTMENT.

General health	\$15,000 00	
Salaries	32,100 00	
Nuisances and sewers	15,000 00	
Quarantine Hospital	20,000 00	
Post mortems, by ordinance	1,000 00	
		\$83,100 00

PUBLIC SCHOOLS.

Salaries	\$615,000 00	
Rents and ground rents	36,000 00	
Books and stationery	45,000 00	
Heating apparatus and its repairs	10,000 00	
Furniture	12,000 00	
Fuel	20,000 00	
Repairs and cleaning	9,000 00	
Printing, supplies and inci- dentals	9,500 00	
Manual Training School	15,000 00	
		\$771,500 00

DEPARTMENT INSPECTOR OF BUILDINGS.

Repairs of engine houses	\$7,000 00	
“ of city jail	3,000 00	
Amounts carried forward	\$10,000 00	\$1,012,771 40

STATEMENT B—Continued.

Amounts brought forward.	\$10,000 00	\$1,012,771 40
Reslating roof of city jail...	2,800 00	
Repairs of City Hall.....	3,500 00	
“ of market houses...	3,000 00	
“ of court houses.....	2,500 00	
“ of dog pound and other property...	500 00	
Repairs of public school houses.....	10,000 00	
Painting public school houses	5,000 00	
Draining wells	4,000 00	
New water-closet to No. 6 School.....	1,300 00	
Grading and paving alley, building partition at No. 8 School, and building re- taining wall in rear of No. 8 Grammar School and No. 30 Primary	900 00	
Substituting wood for plaster ceilings of school houses..	3,000 00	
Emptying cess-pools of school houses	2,000 00	
Incidentals	100 00	
Livery of two horses and re- pairs to wagons.....	600 00	
Salaries	5,500 00	
Completion of No. 14 Engine House	9,700 00	
Amounts carried forward.	\$64,400 00	\$1,012,771 40

STATEMENT B—Continued.

Amounts brought forward.	\$64,400 00	\$1,012,771 40
Completion of Colored High and Grammar School House	25,000 00	
Completion of No. 8 Primary School House	9,000 00	
Balance due on No. 21 Gram- mar School House	4,068 13	
Balance due on No. 6 New Truck House	1,907 19	
		\$104,375 32

POLICE DEPARTMENT.

Salaries of officers and men and expenses	\$710,000 00
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ENOCH PRATT FREE LIBRARY.

Required by Ordinance No. 64, of 1883	\$50,000 00
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FIRE DEPARTMENT.

Salaries	\$140,000 00
Apparatus	20,750 00
“ repairs	4,000 00
Accidents	3,000 00
Feed	10,000 00
Fuel	2,500 00
Furniture	700 00
Harness	500 00

Amounts carried forward. \$181,450 00 \$1,877,146 72

STATEMENT B—Continued.

Amounts brought forward.	\$181,450 00	\$1,877,146 72
Horse shoeing	1,500 00	
Hose and sucking sleeves . .	9,000 00	
Horses	6,000 00	
Ground rent	1,054 25	
Gas	1,000 00	
Oils, grease, &c	1,500 00	
Office expenses, including printing report and mes- senger's salary	1,200 00	
Rent of telephone	600 00	
Miscellaneous	1,000 00	
Washing	1,500 00	
Insurance	1,200 00	
Sick account	1,500 00	
Disabled firemen	3,500 00	
Police and Fire Alarm Tele- graph	24,000 00	
		\$236,004 25

DEPARTMENT GENERAL SUPERINTENDENT
OF LAMPS.

Lamp pillars and lamps . . .	\$ 21,968 00	
Gas and electric light	245,768 62	
Livery of horse	300 00	
		\$268,036 62
Amount carried forward.		\$2,381,187 59

STATEMENT B—Continued.

Amount brought forward \$2,381,187 59

DEPARTMENT CITY COMMISSIONER.

Repairs of sewers and inlets.	\$10,000 00
“ of bridges.	7,000 00
“ of paved streets. . . .	85,000 00
“ of unpaved streets..	1,500 00
Flag and stepping-stones. . . .	10,000 00
Paving and repaving in front of city property	1,000 00
Paving and repaving cross streets	10,000 00
Salaries	9,000 00
Livery	500 00
Incidentals	100 00
Light-street bridge.	3,000 00
Maintenance of floor of Cal- vert-street bridge.	536 05
Maintenance of floor of St. Paul-street bridge	946 27
To complete Mosher street and Rutter's Run sewers..	5,500 00
Improvement of Fulton ave- nue	5,500 00
Retaining wall, Fall's Road.	16,000 00
Reconstruction of Cental ave- nue sewer, near Orleans street	5,700 00

Amounts carried forward. \$171,282 32 \$2,381,187 59

STATEMENT B—Continued.

Amounts brought forward.	\$171,282 32	\$2,381,187 59
Paving streets in the Bolton property	6,211 07	
Surveying instruments for the department	600 00	
Monument to John Lee Chapman, formerly Mayor.	600 00	
		\$178,693 39

DEPARTMENT STREET CLEANING.

134 Garbage carts and men, at \$18 per week	\$125,424 00	
56 Street carts and men, at \$18 per week	52,416 00	
120 Sweepers and scrapers at \$10 per week	62,400 00	
Contract for removal of garbage, &c	9,000 00	
Salaries	9,000 00	
Dumps	4,500 00	
Tools and incidentals	1,850 00	
Removal of snow	5,000 00	
		\$269,590 00

CITY POOR.

Maintenance of Bayview and Insane Department	\$85,000 00	
Transportation of poor	1,500 00	
Amounts carried forward.	\$86,500 00	\$2,829,470 98

STATEMENT B—Continued.

Amounts brought forward..	\$86,500 00	\$2,829,470 98
St. Mary's Industrial School.	20,000 00	
Mt. Hope Retreat	47,000 00	
Maryland Hospital for Insane	14,000 00	
House of Refuge	20,000 00	
House of Reformation for Colored Children.. . . .	10,000 00	
Washington University Hos- pital	6,750 00	
University of Maryland	6,750 00	
St. Vincent's Infant Asylum.	5,000 00	
Nursery and Child's Hospital.	2,500 00	
St. Elizabeth's Colored Or- phan Asylum	1,000 00	
Home of the Friendless	2,100 00	
Female House of Refuge	3,000 00	
Baltimore University Hos- pital	2,535 00	
Deaf and Dumb at Frederick	500 00	
Boys' Home Society	3,000 00	
St. Mary's Female Orphan Asylum	2,500 00	
Maryland General Hospital..	2,535 00	
Widows and orphans, War 1812	200 00	
Homœopathic Free Dispensary	700 00	
Northeastern Dispensary . . .	900 00	
Eastern " . . .	900 00	
Southern " . . .	900 00	

Amounts carried forward..\$239,270 00 \$2,829,470 98

STATEMENT B—Continued.

Amounts brought forward..	\$239,270 00	\$2,829,470 98
Baltimore General Free Dispensary.....	600 00	
Baltimore Medical College Dispensary.....	600 00	
Northwestern Dispensary...	400 00	
College of Physicians and Surgeons Dispensary.....	800 00	
Women's and Child's Hospital Dispensary.....	500 00	
Baltimore University Dispensary.....	700 00	
University of Maryland Dispensary.....	800 00	
Polyclinic Dispensary.....	500 00	
		\$244,170 00

GENERAL EXPENDITURES.

City Council.....	\$53,000 00
General expense.....	1,500 00
Masonic Hall.....	3,452 42
Court-house.....	6,551 00
Madison Square.....	2,500 00
Eastern Fountain.....	1,500 00
Franklin Square.....	1,600 00
Union Square.....	1,600 00
Perkins' Spring Square.....	3,252 00
Park Place Square.....	700 00
Lafayette Square.....	1,600 00

Amounts carried forward.. \$77,255 42 \$3,073,640 98

STATEMENT B—Continued.

Amounts brought forward..	\$ 77,255 42	\$3,073,640 98
Jackson Square.....	900 00	
Mt. Vernon Square.....	1,500 00	
Johnston Square.....	1,000 00	
Broadway Square, first division.....	1,800 00	
Broadway Square, second division.....	1,800 00	
Eutaw Square, first division.	1,800 00	
Eutaw Square, second division.....	1,800 00	
Ashland Square.....	150 00	
Baker Circle.....	200 00	
Taney Place Square.....	300 00	
Mt. Royal avenue Square...	500 00	
Frick's Triangle.....	100 00	
Collington Square.....	1,000 00	
Salaries.....	72,669 60	
City Library.....	7,500 00	
Public printing.....	1,500 00	
Net discount on taxes and interest on loans.....	109,000 00	
Superintendent of City Hall.	22,068 71	
Mayoralty.....	2,000 00	
Lamplighters' salaries.....	46,514 00	
Transportation to House of Correction.....	400 00	
City property, ground rents.	4,200 00	
Appeal Tax Court.....	300 00	

Amounts carried forward..\$356,257 73 \$3,073,640 98

STATEMENT B—Continued.

Amounts brought forward..	\$356,257 73	\$3,073,640 98
City Collector—salaries, &c.	51,150 00	
Commissioners for Opening		
Streets.....	200 00	
Elections.....	14,000 00	
Dog Pound.....	1,500 00	
Supervisors of Elections....	1,000 00	
Tax sales.....	1,200 00	
Winding Maryland Institute		
clock.....	75 00	
Ringling mechanics' bell.....	200 00	
Maryland Institute.....	6,000 00	
New fire plugs, fountains, &c.	6,000 00	
General license.....	1,500 00	
Refunded taxes.....	3,000 00	
State tax on city loans.....	14,000 00	
Ice-boat <i>Maryland</i>	10,000 00	
Insurance of Bayview Asylum	1,305 00	
Assistance to Examiner of		
Titles.....	1,000 00	
		\$468,387 73

HARBOR BOARD.

Harbor.....	\$50,000 00
Quarantine anchorage.....	10,000 00
Ice-boat <i>Latrobe</i> , mainte-	
nance....	12,000 00
Ice-boat <i>Latrobe</i> , repairs....	3,000 00

Amounts carried forward.. \$75,000 00 \$3,542,028 71

STATEMENT B—Continued.

Amounts brought forward..	\$75,000 00	\$3,542,028 71
Bulkhead City Dock, balance.....	3,342 92	
Bulkhead City Dock, required for 1888.....	6,657 08	
Bulkhead Little Hawkins' Point.....	4,000 00	
Repairs of wharves, balance.	3,286 77	
Resurvey of harbor and maps, balance.....	312 74	
Resurvey of harbor and maps, required for 1888...	187 26	
		\$92,786 77

INTEREST ON STOCK DEBT.

One year's interest on Consolidated 6 per cent. 1890 stock.....	\$438,392 76	
One year's interest on Public Park 6 per cent. 1890 stock.....	33,333 96	
One year's interest on Exempt 6 per cent. 1893 stock.....	24,621 24	
One year's interest on Water 6 per cent. 1894 stock...	15,780 00	
One year's interest on Water 5 per cent. 1894 stock...	186,850 00	
Amounts carried forward..	\$698,977 96	\$3,634,815 48

STATEMENT B—Continued.

Amounts brought forward..	\$698,977 96	\$3,634,815 48
One year's interest on Water		
4 per cent. 1922 stock...	20,000 00	
One year's interest on Water		
5 per cent. 1916 stock. . .	250,000 00	
One year's interest on Fund-		
ing 6 per cent. 1900 stock.	48,000 00	
One year's interest on Fund-		
ing 5 per cent. 1916 stock.	50,000 00	
One year's interest on Har-		
ford Run improvement		
4 per cent. 1920 stock. . .	10,000 00	
One year's interest on Pav-		
ing 4 per cent. 1920 stock.	20,000 00	
One year's interest on Five		
Million 6 per cent. 1890		
stock	300,000 00	
One year's interest on Con-		
solidated 6 per cent. 1893		
stock	132,664 08	
One year's interest on Park		
improvement 6 per cent.		
1895 stock.....	11,143 38	
One year's interest on City		
Hall 6 per cent. 1900		
stock	60,000 00	
One year's interest on City		
Hall 6 per cent. 1902		
stock	30,000 00	
Amounts carried forward..	\$1,630,785 42	\$3,634,815 48

STATEMENT B—Continued.

Amounts brought forward.	\$1,630,785 42	\$3,634,815 48
One year's interest on Jones' Falls 6 per cent. 1900 stock.....	48,000 00	
One year's interest on Jones' Falls 5 per cent. 1900 stock.....	47,850 00	
One year's interest on Jones' Falls 3.65 per cent. 1900 stock.....	16,607 50	
One year's interest on Western Maryland Railroad 6 per cent. 1902 stock.....	60,000 00	
One year's interest on Patterson Park Extension 4 per cent. 1920 stock.....	8,000 00	
One year's interest on Western Maryland Railroad 4 per cent. 1925 stock.....	27,360 00	
One year's interest on Jones' Falls 3 per cent. 1900 stock.....	3,000 00	
One year's interest on Completion of Harford Run 4 per cent. 1904 stock. ...	9,868 00	
One year's interest on Western Maryland Railroad 3½ per cent. 1927 stock..	55,380 00	
One year's interest on Western Maryland Railroad Third Mortgage.....	52,500 00	
	\$1,959,350 92	

Amounts carried forward.\$1,959,350 92 \$3,634,815 48

STATEMENT B—Continued.

Amounts brought forward.	\$1,959,350 92	\$3,634,815 48
Less		
Interest paid by B. & O. R. R. Co. on Five Million loan	\$300,000 00	
Interest paid by Commis- sioners of Fi- nance	112,500 00	
Interest paid by Water Board	472,630 00	
Interest paid by City Pas- senger Rail- way Co	41,333 96	
Interest paid by Western Maryland R. R. Co.	82,740 00	1,009,203 96
		950,146 96
		\$4,584,962 44

CERTAIN EXPENSES.

Criminal Court	67,000 00	
Baltimore City Court	14,000 00	
Superior Court	14,000 00	
Amounts carried forward.	\$95,000 00	\$4,584,962 44

STATEMENT B—Continued.

Amounts brought forward..	\$95,000 00	\$4,584,962 44
Court of Common Pleas.....	14,000 00	
Circuit Court.....	2,900 00	
Orphans' Court.....	8,000 00	
Supreme Bench.....	2,575 00	
Coroners.....	2,400 00	
Judgments and suits.....	7,000 00	
Jail.....	61,000 00	
Magistrates.....	15,650 00	
Removed cases.....	3,000 00	
Registration of voters.....	13,000 00	
		224,525 00

OPENING AND WIDENING STREETS.

Patapsco street, from Fort avenue to Ostend, balance. \$	819 15
Race street, from Cross street to Fort avenue, balance...	554 62
Preston street, from Gay to eastern city limits, balance.	3,592 36
Monroe street, from Balti- more street to Liberty turn- pike, balance.....	2,433 54
Covington street, from Fort avenue to Gould street, bal- ance.....	1,456 02
Widening Orleans street....	2,689 96
Patterson Park avenue.....	21,043 79

Amounts carried forward.. \$32,589 44 \$4,809,487 44

STATEMENT B—Concluded.

Amounts brought forward..	\$32,589 44	\$4,809,487 44
Opening an alley 8 feet wide.	171 65	
East street.....	509 72	
Calhoun street.....	25,072 32	
Widening Fulton avenue....	1,675 73	
Mt. Royal avenue.....	175,883 25	
Clarkson alley.....	519 65	
Cannon street.....	28,882 32	
Hope street.....	1,682 23	
Robert street.....	9,597 00	
Dallas street.....	2,049 78	
		\$278,633 09
		\$5,088,120 53

STATEMENT C.

Estimated Receipts from Taxes in arrear, and other specified sources of Revenue, for the fiscal year ending December 31, 1888.

Taxes in arrear, estimated collections	
during the year.....	\$1,020,000 00
State of Maryland, for Public Schools...	147,400 00
Amount due by Water Board.....	100,000 00
Fines.....	2,500 00
Jail Visitors.....	2,000 00
Bayview Asylum.....	3,000 00
Mount Hope Retreat.....	1,700 00
Maryland Hospital for Insane.....	1,000 00
Sale of refuse from streets.....	1,500 00
Quarantine Hospital.....	4,500 00
Permits for sheds and signs.....	5,000 00
Vaults and areas.....	500 00
Inspector and Sealer of Gas Meters.....	2,100 00
Rent of market stalls—net.....	53,000 00
Rent of public wharves—net.....	25,000 00
General licenses.....	44,000 00
Dog pound.....	300 00
Auction duties.....	7,000 00
Turnpike dividends.....	300 00
Public Schools, tuition fees, and J. F. Plummer.....	6,700 00
Fire Department.....	250 00
Renumbering houses.....	7,000 00
Total.....	\$1,434,750 00

STATEMENT D.

NAMES OF ACCOUNTS.	FACE OF LEDGER.		Appropriat'ns.	Received from Collector of Taxes.	Received from Other Sources.
	Dr.	Cr.			
Criminal Court.....	\$ 66,126 73	\$ 57,500 00	\$ 57,500 00	.....	.....
Baltimore City Court.....	13,138 45	14,000 00	14,000 00	.....	.....
Court of Common Pleas.....	13,055 27	14,000 00	14,000 00	.....	.....
Superior Court.....	13,130 30	12,000 00	12,000 00	.....	.....
Circuit Court.....	2,877 65	2,500 00	2,500 00	.....	.....
Orphans' Court.....	7,903 10	7,500 00	7,500 00	.....	.....
Supreme Bench.....	2,575 00	2,575 00	2,575 00	.....	.....
Coroners.....	2,400 00	2,400 00	2,400 00	.....	.....
Fines.....	888 00	3,041 15	.....	.....	\$ 3,041 15
Judgments and Suits.....	8,527 16	6,000 00	6,000 00	.....	.....
Jail.....	60,999 65	64,697 34	62,500 00	.....	2,197 34
Magistrates.....	15,312 00	15,650 00	15,650 00	.....	.....
Removed Cases.....	2,921 34	4,114 31	4,000 00	.....	114 31
Registration.....	12,538 57	13,000 00	13,000 00	.....	.....
Certain Expenses.....	.....	207,869 47	.....	\$207,869 47	.....
<i>Schools.</i>					
Public Schools.....	127,126 01	860,672 06	127,130 70	579,372 80	154,168 56
“ Salaries.....	603,369 30	603,369 30	603,369 30	.....	.....
Manual Training School.....	10,996 18	11,000 00	11,000 00	.....	.....
City Poor.....	.....	220,892 41	.....	220,892 41	.....
Bayview.....	79,995 82	83,965 46	80,000 00	.....	3,965 46
Transportation of Poor.....	843 54	1,008 00	1,000 00	.....	8 00
Dispensaries.....	8,600 00	8,600 00	8,600 00	.....	.....
St. Mary's Industrial School.....	20,000 00	20,000 00	20,000 00	.....	.....
Mt. Hope Retreat.....	26,000 00	27,755 00	26,000 00	.....	1,755 00

Maryland Hospital for the Insane.....	13,000 00	14,020 00	13,000 00	1,020 00
House of Refuge.....	14,583 40	14,700 00	14,700 00	.....
House of Reformation.....	10,000 00	10,000 00	10,000 00	.....
Washington University.....	6,750 00	6,750 00	6,750 00	.....
University of Maryland.....	6,750 00	6,750 00	6,750 00	.....
St. Vincent's Infant Asylum.....	4,999 93	5,000 00	5,000 00	.....
Nursery and Child's Hospital.....	2,249 98	2,500 00	2,500 00	.....
St. Elizabeth's Colored Orphan Asylum.....	999 96	1,000 00	1,000 00	.....
Home of the Friendless.....	2,100 00	2,100 00	2,100 00	.....
Industrial Home for Colored Girls.....	.....	1,500 00	1,500 00	.....
Female House of Refuge.....	3,000 00	3,000 00	3,000 00	.....
Baltimore University Hospital.....	2,444 92	2,535 00	2,535 00	.....
Deaf and Dumb at Frederick.....	498 67	500 00	500 00	.....
Boys' Home Society.....	3,000 00	3,000 00	3,000 00	.....
St. Mary's Female Orphan Asylum.....	2,291 67	2,500 00	2,500 00	.....
Maryland General Hospital.....	2,530 75	2,535 00	2,535 00	.....
Widows and Orphans, War of 1812.....	100 00	200 00	200 00	.....
Park Sinking Fund.....	18,168 65	18,168 65	.....	18,168 65
Harbor Commission.....	44,921 50	45,040 00	45,000 00	40 00
Bulkhead at Little Hawkins' Point.....	5,998 52	6,000 00	6,000 00	.....
Resurvey of Harbor.....	3,687 26	4,000 00	4,000 00	.....
Ice-boat <i>F. C. Latrobe</i>	11,992 03	12,000 00	12,000 00	.....
Repairs of Wharves.....	713 23	4,000 00	4,000 00	.....
Repairs of City Dock.....	4,045 14	7,388 06	7,388 06	.....
Dredging Channel, Spring Gardens....	5,000 00	5,000 00	5,000 00	.....
Police Department.....	702,881 56	1,390,045 90	705,000 00	685,045 90
Amounts carried forward.....	\$1,972,031 24	\$3,834,342 11	\$1,956,683 06	\$184,478 47

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER.		Appropriat'ns.	Received from Collector of Taxes.	Received from Other Sources.
	Dr.	Cr.			
Amounts brought forward.....	\$1,972,031 24	\$3,834,342 11	\$1,956,683 06	\$1,693,180 58	\$184,478 47
<i>Health Department.</i>					
Cleaning streets.....	263,933 67	265,503 05	263,940 00	.....	1,563 05
Health.....	12,988 26	13,000 00	13,000 00	.....	.....
“ Salaries.....	31,987 83	32,000 00	32,000 00	.....	.....
Quarantine Hospital.....	17,973 33	22,901 74	18,000 00	.....	4,901 74
Nuisances.....	11,776 82	12,000 00	12,000 00	.....	.....
Post Mortems.....	833 32	833 32	833 32	.....	.....
<i>Fire Department.</i>					
Salaries and Incidentals.....	201,604 22	201,840 73	201,604 25	.....	236 48
Fire-alarm Boxes, various places.....	3,621 98	3,622 50	3,622 50	.....	.....
Keyless Doors on Fire-alarm Boxes.....	1,350 00	1,350 00	1,350 00	.....	.....
Hook and Ladder Company, No. 5.....	7,649 91	7,650 00	7,650 00	.....	.....
<i>Inspector of Buildings.</i>					
Salaries and Incidentals.....	6,199 58	6,275 00	6,275 00	.....	.....
Observatory at Federal Hill Park.....	2,997 10	3,000 00	3,000 00	.....	.....
Draining Well of No. 3 Engine House.	700 00	700 00	700 00	.....	.....
“ “ No. 1 Engine House, &c.....	750 00	750 00	750 00	.....	.....
New Truck House, Northeast Baltimore.....	3,983 30	4,000 00	4,000 00	.....	.....
New Truck House, South Baltimore.....	8,592 81	10,500 00	10,500 00	.....	.....

Clerk's Office, Hanover Market.....	796 00	800 00	.....	.....	.....
" " Hollins Market.....	643 40	650 00	.....	.....	.....
Water Closet at No. 1 Truck-house.....	350 00	350 00	.....	.....	.....
Building Laundry at City Jail.....	4,500 00	4,500 00	.....	.....	.....
" Colored High and Grammar School.....	186 38	12,000 00	.....	.....	.....
" Addition to School No. 21.....	3,931 87	4,000 00	.....	.....	.....
" Primary School No. 8.....	9,000 00	9,000 00	.....	.....	.....
Permits for Sheds, Signs, &c.....	1,132 52	5,788 90	.....	.....	5,788 90
Repairs of School Houses.....	9,994 38	10,000 00	.....	.....	.....
" of City Property.....	18,490 31	18,500 00	.....	.....	.....
" of Fifth Regiment Armory.....	990 98	1,000 00	.....	.....	.....
" of Baltimore Light Infantry Armory.....	2,497 94	2,500 00	.....	.....	.....
" of No. 7 Engine House.....	500 00	500 00	.....	.....	.....
" of Criminal Court.....	3,197 35	3,200 00	.....	.....	.....
" of House of Refuge.....	5,300 00	5,300 00	.....	.....	.....
Cleaning Cess-pools of Public Schools, Shed at Northeast Market.....	1,494 00	1,500 00	.....	.....	.....
Engine House, West Baltimore.....	8,995 75	9,000 00	.....	.....	.....
Altering Centre Market.....	579 05	9,000 00	.....	.....	.....
Wood Ceilings for School Houses.....	2,039 37	2,050 00	.....	.....	.....
	3,000 00	3,000 00	.....	.....	.....
<i>City Commissioner's Department.</i>					
Salaries and Incidentals.....	9,569 25	9,550 00	.....	.....	.....
Vaults and Areas.....		627 00	.....	.....	627 00
Repairs of paved streets.....	74,911 25	76,200 58	.....	.....	1,200 58
" of unpaved streets.....	1,497 69	1,917 71	.....	.....	.....
" of bridges.....	7,857 25	7,900 00	.....	.....	.....
" of sewers.....	13,055 62	15,402 68	.....	.....	2,302 68
Improvement of Jones' Falls.....	145,973 03	448 12	.....	.....	448 12
Amounts carried forward.....	\$2,879,456 76	\$4,634,953 44	\$2,740,225 84	\$1,693,180 58	\$201,547 02

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER.*		Appropriat'ns.	Received from Collector of Taxes.	Received from Other Sources.
	Dr.	Cr.			
Amounts brought forward.....	\$2,879,456 76	\$4,634,953 44	\$2,740,225 84	\$1,693,180 58	\$201,547 02
Improvement of Harford Run.....	137,674 40	97,582 00	.....	.....	97,582 00
Jones' Falls 3.65 per cent. Loan of 1900.....	.....	140,051 50	.....	.....	140,051 50
Macadamizing Falls road.....	999 95	999 95	999 95	.....	.....
Engine for Light Street Bridge.....	287 50	287 50	287 50	.....	.....
Traps to Eager Street Sewer.....	78 31	112 00	112 00	.....	.....
Paving Loan of 1920.....	6,256 33	.....	.....	.....	.....
Rail on Ridgely street.....	149 35	150 00	150 00	.....	.....
Paving footway, Johnson Square.....	2,158 50	2,158 50	2,158 50	.....	.....
“ Baltimore street side, Patterson Park.....	1,392 89	1,392 89	1,392 89	.....	.....
Improvement of Fulton avenue.....	2,772 25	3,500 00	3,500 00	.....	.....
Light Street Bridge.....	2,013 77	2,050 89	2,050 89	.....	.....
Paving Centre Market.....	6,110 85	6,170 85	6,110 85	.....	60 00
Cross streets (paving and repaving).....	7,876 07	8,000 00	8,000 00	.....	.....
Paving in front of City property.....	997 01	1,000 00	1,000 00	.....	.....
Iron Plates.....	2,714 00	2,714 00	2,714 00	.....	.....
Dredging Jones' Falls.....	153 38	153 38	153 38	.....	.....
Flags and Stepping-stones.....	7,709 92	8,000 00	8,000 00	.....	.....
Shelling Franklin street.....	99 41	100 00	100 00	.....	.....
“ Bayard street.....	467 15	467 15	467 15	.....	.....
“ Eastern avenue.....	700 00	700 00	700 00	.....	.....
“ Washington road.....	796 65	803 50	800 00	.....	3 50
“ Warner and Dock streets.....	387 10	387 10	387 10	.....	.....
“ Liberty road.....	40 51	50 00	50 00	.....	.....
“ Point lane.....	249 70	250 00	250 00	.....	.....
“ Ridgely street.....	414 35	414 35	414 35	.....	.....

Shelling Fayette and Monument streets	600 00	600 00	600 00	.....	.....	.....
New Turntable at Drawbridge.....	974 85	974 85	974 85	.....	.....	.....
Constructing Sewer on Low street.....	1,499 18	1,542 51	1,500 00	.....	.....	42 51
Paving Fish Market, Lexington Market	1,924 50	2,000 00	2,000 00	.....	.....	.....
ket	2,525 00	.....	.....	.....	.....	.....
Paving Fish Market, Hanover Market.	1,199 23	1,200 00	1,200 00	.....	.....	.....
Culvert at Eager and Calvert streets...	684 41	700 00	700 00	.....	.....	.....
Inlets to sewer on Howard street.....	.....	.....	.....	.....	.....	.....
Iron Gutter-plates, Pratt and Monroe	690 24	900 00	900 00	.....	.....	.....
streets .....	.....	.....	.....	.....	.....	.....
Iron Gutter-plates, Howard and Barre	709 22	850 00	850 00	.....	.....	.....
streets	536 00	536 00	536 00	.....	.....	.....
Repairing floor of Calvert Street Bridge	.....	.....	.....	.....	.....	.....
Repairing floor of St. Paul Street	946 25	946 25	946 25	.....	.....	.....
Bridge	511 75	600 00	600 00	.....	.....	.....
Changing kerb at Rutaw Place.....	15 63	.....	.....	.....	.....	.....
Necessity Alley Sewer.....	13,449 34	13,452 27	13,452 27	.....	.....	.....
Lanvale Street Sewer.....	4,984 21	5,008 67	5,000 00	.....	.....	8 67
North Avenue Sewer.....	.....	.....	.....	.....	.....	.....
Repairing gutters, Charles and Eager	1,790 99	1,800 00	1,800 00	.....	.....	.....
streets.....	6,452 77	6,500 00	6,500 00	.....	.....	.....
Mosher Street Sewer.....	.....	.....	.....	.....	.....	.....
<i>Park Commission.</i>						
Druid Hill and Patterson Parks.....	124,987 57	119,325 07	.....	.....	.....	119,325 07
Music at Public Parks.....	3,000 00	3,000 00	3,000 00	.....	.....	.....
Hof-house, Perkins' Spring Square...	600 00	600 00	600 00	.....	.....	.....
Federal Hill Park.....	5,789 63	5,825 00	5,500 00	.....	.....	325 00
Riverside Park.....	7,767 27	7,770 62	7,770 62	.....	.....	.....
Harlem Park.....	4,000 00	4,000 00	4,000 00	.....	.....	.....
Patterson Park Extension.....	16 10	.....	.....	.....	.....	.....
Amounts carried forward.....	\$3,247,610 25	\$5,090,580 24	\$2,838,454 39	\$1,693,180 58	.....	\$558,945 27

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER.		Appropriat'ns.	Received from Collector of Taxes.	Received from Other Sources.
	Dr.	Cr.			
Amounts brought forward	\$3,247,610 25	\$5,090,580 24	\$2,838,454 39	\$1,693,180 58	\$558,945 27
<i>General Superintendent of Lamps.</i>					
Inspecting and Sealing Gas Meters ..		3,773 25			3,773 25
Incidentals	300 00	300 00	300 00		
Gas and Electric Lights.	194,921 07	206,000 00	206,000 00		
Lamp-pillars and Lamps.	25,982 38	26,131 80	26,000 00		131 80
<i>General Expenditures.</i>					
City Council	52,925 12	53,000 00	53,000 00		
General Expense	1,188 84	1,500 00	1,500 00		
Masonic Hall.	3,283 20	3,298 00	3,298 00		
Court-house	5,901 81	6,185 00	6,185 00		
Madison Square	2,494 02	2,500 00	2,500 00		
Eastern Fountain	1,275 32	1,500 00	1,500 00		
Franklin Square	1,650 00	1,650 00	1,650 00		
Union Square	2,189 08	2,400 00	2,400 00		
Perkins' Spring Square	3,252 00	3,252 00	3,252 00		
Park Place Square	699 93	700 00	700 00		
Lafayette Square	1,327 65	1,500 00	1,500 00		
Jackson Square	899 51	900 00	900 00		
Mt. Vernon Squares.	1,500 00	1,500 00	1,500 00		
Johnson Square	2,851 43	2,858 02	2,858 02		
Broadway Square—1st division	1,992 60	2,000 00	2,000 00		
“ —2d division	1,948 59	2,000 00	2,000 00		
Eutaw Square—1st division	1,800 0	1,800 00	1,800 00		

Eutaw Square—2d division.....	1,798 92	1,800 00	1,800 00	.....	.....
Ashland Square.....	131 00	150 00	150 00	.....	.....
Baker Circle.....	300 00	300 00	300 00	.....	.....
Taney Place Square.....	297 80	300 00	300 00	.....	.....
Mt. Royal Avenue Square.....	2,500 00	2,500 00	2,500 00	.....	.....
Frick's Triangle.....	1,000 00	1,000 00	1,000 00	.....	.....
Collington Square.....	999 13	1,000 00	1,000 00	.....	.....
Lafayette Market.....	252 52	1,067 93	.....	.....	1,067 93
Centre Market.....	668 26	8,332 15	.....	.....	8,332 15
Belair Market.....	539 48	8,266 50	.....	.....	8,266 50
Fell's Point Market.....	517 75	6,736 50	.....	.....	6,736 50
Lexington Market.....	597 00	12,565 95	.....	.....	12,565 95
Richmond Market.....	394 00	3,147 36	.....	.....	3,147 36
Hanover Market.....	618 41	6,495 00	150 00	.....	6,345 00
Gross Street Market.....	454 07	4,204 90	150 00	.....	4,144 90
Hollins Market.....	360 50	3,740 65	.....	.....	3,740 65
Northeast Market.....	184 95	1,789 90	.....	.....	1,789 90
Canton Market.....	326 29	851 60	.....	.....	851 60
Gross Street Hall.....	55 40	447 00	.....	.....	447 00
Hollins Hall.....	88 05	812 00	.....	.....	812 00
Broadway Hall.....	.....	40 00	.....	.....	40 00
Wharfage.....	8,408 95	33,560 96	.....	.....	33,560 96
Salaries.....	72,624 35	72,669 60	72,669 60	.....	.....
City Library.....	7,676 57	8,030 00	8,000 00	.....	20 00
Public Printing.....	812 45	1,997 50	1,691 50	.....	306 00
Interest.....	131,698 05	212,716 22	93,000 00	119,716 22	.....
Interest on Stock Debt.....	1,812,691 14	2,837,272 43	1,810,568 47	.....	1,026,703 96
Superintendent of City Hall.....	18,685 04	18,868 43	18,843 83	.....	24 60
Mayoralty.....	1,832 95	2,000 00	2,000 00	.....	.....
Lamp-lighters.....	46,514 00	46,514 00	46,514 00	.....	.....
Special Appropriations.....	4,884 80	4,884 80	4,884 80	.....	.....
Transportation to House of Correction.....	225 90	400 00	400 00	.....	.....
Amounts carried forward.....	\$5,674,130 53	\$8,719,869 69	\$5,225,219 61	\$1,812,896 80	\$1,681,753 28

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER.		Appropriat'ns.	Received from Collector of Taxes.	Received from Other Sources.
	Dr.	Cr.			
Amounts brought forward.....	\$5,674,130 53	\$8,719,869 69	\$5,225,219 61	\$1,812,896 80	\$1,681,753 28
City Property.....	4,293 84	4,275 00	4,100 00	.....	175 00
Appeal Tax Court.....	257 80	400 00	400 00	.....	.....
Unclaimed Damages for Opening Streets.....	749 21	716 50	.....	.....	716 50
City Collector.....	51,093 83	51,150 00	51,150 00	.....	.....
Commissioners for Opening Streets.....	123 01	200 00	200 00	.....	.....
Elections	10,662 77	14,000 00	14,000 00	.....	.....
Dog Pound.....	1,199 90	1,606 66	1,200 00	.....	406 66
Supervisors of Elections.....	684 51	1,500 00	1,500 00	.....	.....
Tax Sales.....	957 41	4,430 68	2,500 00	.....	1,930 68
Winding Maryland Institute Clock.....	75 00	75 00	75 00	.....	.....
Ringling Mechanics' Bells.....	200 00	200 00	200 00	.....	.....
Maryland Institute.....	6,000 00	6,000 00	6,000 00	.....	.....
Water Board.....	813,505 15	745,445 96	.....	.....	745,445 96
Water Loan, 1922.....	851 60	245 00	.....	.....	245 00
New Fire-plugs, Fountains, &c.....	4,000 00	4,000 00	4,000 00	.....	.....
General License.....	1,331 99	46,109 30	1,500 00	.....	44,609 30
City Seal.....	.....	10 00	.....	.....	10 00
Refunded Taxes.....	3,518 36	2,500 00	2,500 00	.....	.....
Temporary Loans	1,310,000 00	1,510,000 00	.....	.....	1,510,000 00
Auction Duties.....	.....	7,431 16	.....	.....	7,431 16
State Tax on City Loans.....	38,034 63	41,116 92	16,500 00	.....	24,616 92
Suspense Account.....	1,627 50	1,627 50	1,627 50	.....	.....
Enoch Pratt Free Library.....	50,000 00	50,000 00	50,000 00	.....	.....
Renumbering Houses.....	17,787 00	10,975 51	.....	.....	.....
Direct Tax .....	.....	1,489,349 37	.....	10,975 51	.....
				1,489,349 37	.....

Miscellaneous Stocks.....	.....	.....	.....	680,748 82	.....	680,748 82	.....
Opening Streets.....	.....	.....	.....	176,795 97	.....	176,795 97	.....
Water Tax.....	.....	.....	.....	50,421 20	.....	50,421 20	.....
Conscience Fund.....	.....	.....	.....	150 00	.....	150 00	.....
Intestate Estates.....	.....	.....	.....	73 30	.....	73 30	.....
Ice-boat <i>Maryland</i>	10,000 00	.....	.....	10,000 00	.....	10,000 00	.....
Turnpike Dividends.....	.....	.....	.....	158 00	.....	158 00	.....
Sale of City Property.....	376 24	.....	.....	492 50	.....	492 50	.....
Insurance of Bayview Asylum.....	1,305 00	.....	.....	1,305 00	.....	1,305 00	.....
Purchase of Eave Stall No. 7, Hollins Market.....	200 00	.....	.....	200 00	.....	200 00	.....
Purchase of Lot for Primary School No. 8.....	1,200 00	.....	.....	550 00	.....	550 00	.....
Hose for Sundry Markets.....	511 10	.....	.....	550 00	.....	550 00	.....
Assistance to Examiner of Titles.....	583 00	.....	.....	.....	.....	.....	.....
Refurnishing Baltimore City Court.....	251 42	.....	.....	.....	.....	.....	.....
“ Criminal Court.....	349 36	.....	.....	350 00	.....	350 00	.....
“ Orphans' Court.....	700 00	.....	.....	700 00	.....	700 00	.....
Lot for Colored High and Grammar School.....	14,000 00	.....	.....	14,000 00	.....	14,000 00	.....
Lot for Engine-house in West Balti- more.....	3,000 00	.....	.....	3,000 00	.....	3,000 00	.....
Widening Orleans street.....	103,069 06	.....	.....	94,462 30	.....	14,095 63	3,320 00
Closing Fourth street.....	1 00	.....	.....	.....	.....	.....	.....
“ Belvidere street.....	174 41	.....	.....	.....	.....	.....	.....
“ Carey street.....	42 30	.....	.....	.....	.....	.....	.....
“ an alley 10 feet wide from Eden to Spring street.....	13 50	.....	.....	.....	.....	.....	.....
“ Kirby's lane.....	111 00	.....	.....	.....	.....	.....	.....
“ Butchers' lane.....	169 62	.....	.....	.....	.....	.....	.....
“ Brown's lane.....	40 51	.....	.....	.....	.....	.....	.....
“ Point lane.....	25 85	.....	.....	.....	.....	.....	.....
Amounts carried forward.....	\$8,127,206 81	\$13,746,541 34	\$5,489,823 78	\$4,235,183 30	.....	.....	\$4,031,534 20

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER.		Appropriat'ns.	Received from Collector of Taxes.	Received from Other Sources.
	Dr.	Cr.			
Amounts brought forward.....	\$8,127,206 81	\$13,746,541 34	\$5,489,823 78	\$4,235,183 50	\$4,021,534 26
Closing V alley.....	69 65				
" Milliman street.....	9 84				
Opening Preston street.....	30,758 16	33,400 82	14,954 32	18,446 50	
" Stockholm street.....	57 85				
" John street.....	32 06				
" Chester street.....	43 01				
" Hoffman street.....	18 10				
" Etting street.....	133 80				
" Dallas street.....	151 88				
" Scott street.....	42 26				
" North avenue.....	12 00				
" Wilkens avenue.....		825 00			825 00
" Federal street.....	26 50				
" Cannon street.....	609 70	41 67		41 67	
" Patapasco street.....	361 02	819 15	819 15		
" Mount street.....	19 65				
" Calhoun street.....	389 89	2,119 95		2,119 95	
" Mosher street.....	42 50				
" Ostend street.....	38,005 59	38,507 91	23,837 05	12,522 69	2,148 17
" Beason street.....	361 43				
" Monroe street.....	106,944 89	100,985 24	43,654 59	65,605 65	725 00
" Pulaski street.....	91 00				
" Bethel street.....	4 75				
" Payson street.....	91 00				
" Paterson Park avenue.....	4,936 00	5,143 34	1,296 50	3,846 84	
" Clarkson alley.....	177 40	49 33		49 33	

"	Box alley.....	12,018 00	12,338 83	3,029 49	7,601 22	1,708 12
"	Patapasco alley.....	193 18				
"	Morton alley.....	25 23				
"	Fulton avenue.....	213 89	19 00		19 00	
"	Harlem avenue.....	116 16				
"	a 40-foot street between Light and William streets.....	97 23				
"	a street 40 feet wide north of Townsend street.....	113 43				
"	alley from Central avenue to Eden street.....	26 00				
"	alley from Caroline to Spring street 10 feet wide.....	26 00				
"	alley from Eden to Spring street 10 feet wide.....	38 50				
"	alley from Eden to Spring street 9 feet 9 inches wide.	26 00				
"	alley from Caroline to Dallas street.....	26 00				
"	12 foot alley from Lanvale street to Harlem Stage Co.	28 40				
"	Nanticoke street.....	260 87				
"	Wicomico street.....	205 93				
"	East street.....	180 84	1,141 13		1,141 13	
"	Madison street.....	90 30				
"	Holbrook street.....	3,046 32	2,750 17	2,536 30	213 87	
"	Race street.....	181 16	554 62	554 62		
"	Barelay street.....	134 70	134 70	134 70		
"	Oliver street.....	22 00				
"	Mulberry street.....	86 00				
"	Saratoga street.....	65 01				
"	Carey street.....	10 50				
Amounts carried forward.....		\$8,327,828 39	\$13,954,372 20	\$5,580,640 50	\$4,346,791 15	\$4,036,940 55

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER.		Appropriations.	Received from Collector of Taxes.	Received from Other Sources.
	Dr.	Cr.			
Amounts brought forward.....	\$8,327,938 39	\$13,954,372 20	\$5,580,640 50	\$4,346,791 15	\$4,026,940 55
Opening Clare street.....	436 42				
“ Henry street.....	212 85				
“ Beverlin street.....	224 48				
“ Russell street.....	220 90				
“ Lanvale street.....	27 76				
“ Patuxent street.....	31 00				
“ Mount Royal avenue.....	1,127 62	17,966 62		17,966 62	
“ Collington avenue.....	317 01				
“ Kirby's lane.....	77 16				
“ Washington road.....	104 97				
“ McComas street.....	57 00				
“ Johnson street.....	43 01				
“ Donaldson street.....	65 76				
“ Burke street.....	258 60				
“ Jephson street.....	63 26				
“ Exeter street.....	27 24				
“ Biddle street.....	1 00				
“ Lexington street.....	1 00				
“ Covington street.....		1,456 02	1,456 02		
“ Townsend street.....	404 01				
“ Douglas street.....	674 35				
“ Wooster street.....	170 45				
“ Carroll street.....	430 88				
“ South Paca street.....	124 05				
“ Cooksie street.....	208 70				
“ Andre street.....	251 64				

"	Richardson street.....	193 10	.....	.....	.....	.....	.....
"	Robert street.....	21 56	.....	3,639 37	.....	3,639 37	.....
"	Clement street.....	6,761 47	.....	5,729 56	4,920 31	809 25	.....
"	Penn street.....	480 17	.....	.....	.....	.....	.....
"	Bouldin alley.....	252 10	.....	.....	.....	.....	.....
"	Port alley.....	111 10	.....	.....	.....	.....	.....
Paving Interest.....							
"	North avenue.....	727 13	.....	359 87	.....	359 87	.....
"	Madison street.....	.....	.....	566 15	.....	566 15	.....
"	German street.....	.....	.....	829 90	.....	829 90	.....
"	West Baltimore street.....	.....	.....	154 64	.....	154 64	.....
"	Hanover street.....	.....	.....	85 70	.....	85 70	.....
"	Franklin street.....	.....	.....	257 50	.....	257 50	.....
"	Moshier street.....	.....	.....	319 18	.....	319 18	.....
"	Tennant street.....	23 34	.....	254 01	.....	254 01	.....
"	Calhoun street.....	.....	.....	84 14	.....	84 14	.....
"	Belt street.....	4,429 26	.....	189 02	.....	189 02	.....
"	Mount street.....	.....	.....	4,273 34	.....	4,273 34	.....
"	East Fayette street.....	.....	.....	57 45	.....	57 45	.....
"	Gold street.....	.....	.....	4,458 57	.....	4,458 57	.....
"	Cross street.....	.....	.....	736 13	.....	736 13	.....
"	Liberty street.....	.....	.....	173 73	.....	173 73	.....
"	Eden street.....	.....	.....	696 68	.....	696 68	.....
"	Saratoga street.....	.....	.....	758 15	.....	758 15	.....
"	McHenry street.....	3,055 66	.....	97 50	.....	97 50	.....
"	Sewell street.....	.....	.....	2,118 62	.....	2,118 62	.....
"	Bethel street.....	.....	.....	223 50	.....	223 50	.....
"	Broadway.....	2,087 84	.....	2,160 46	.....	2,160 46	.....
"	Bruce alley.....	.....	.....	12,888 90	.....	12,888 90	.....
"	Plum alley.....	.....	.....	382 22	.....	382 22	.....
"	Box alley.....	.....	.....	123 65	.....	123 65	.....
"	Morris alley.....	13 28	.....	70 00	.....	70 00	.....
"	.....	.....	.....	8 67	.....	8 67	.....
Amounts carried forward.....							
		\$8,351,545 52	\$14,015,491 45	\$5,557,016 83	\$4,401,534 07	\$4,036,940 55	

STATEMENT D—Concluded.

NAMES OF ACCOUNTS.	FACE OF LEDGER.		Appropriat'ns.	Received from Collector of Taxes.	Received from Other Sources.
	Dr.	Cr.			
Amounts brought forward.....	\$8,351,545 52	\$14,015,491 45	\$5,587,016 83	\$4,401,534 07	\$4,026,940 55
Paving Orleans street.....	108 92				
" Hull street.....	239 65				
" Lanvale street.....	7,498 34				
" Chester street.....	70 02				
" Clement street.....	238 85				
" Hoffman street.....	31 12				
" Biddle street.....	5,060 24	4,605 61		4,605 61	
" Oliver street.....	726 95				
" 20 foot alley from Hoffman street to Gelston alley.....		30 31		30 31	
" Edmondson avenue.....	9,072 58				
" Wilkens avenue.....	3,499 39				
" Streets, Bolton Property.....	155 60				
" 20 foot alley, near Pennsylvania avenue.....	49 06				
" Fulton avenue.....	25,633 56	13,328 46			
Mayor and City Council.....	5,587,016 83			12,346 01	982 45
Cash.....	8,446,439 00	8,403,929 80			
Totals.....	\$22,437,385 63	\$22,437,385 63	\$5,587,016 83	\$4,418,516 00	\$4,027,923 00

STATEMENT E.

Receipts and Disbursements from December 31, 1886, to December 31, 1887.

	Receipts.	Disbursements.
January.....	\$ 150,547 23	\$ 538,464 28
February.....	806,237 89	319,306 09
March.....	793,116 72	951,927 85
April.....	509,714 49	598,396 60
May.....	457,417 86	1,294,917 88
June.....	1,391,305 03	548,200 14
July.....	1,113,133 30	724,607 93
August.....	261,043 55	490,914 32
September.....	382,231 03	560,649 09
October.....	597,727 75	625,582 22
November.....	1,020,023 41	1,348,171 09
December.....	963,940 74	402,792 31
	\$8,446,439 00	\$8,403,929 80
Balance Dec. 31, 1886..	257,615 68	
“ “ 1887..		300,124 88
	\$8,704,054 68	\$8,704,054 68

STATEMENT F.

The condition of the Sinking Fund for the Redemption of the Five Million Loan to the Baltimore and Ohio Railroad Company the 31st day of December, 1887, is as follows:

Consolidated 6 per cent. loan of 1890....				\$198,500 00
Five Million 6	"	"	1890....	847,300 00
City Hall 6	"	"	1900....	41,300 00
" 6	"	"	1902....	6,200 00
Funding 6	"	"	1900....	58,900 00
Park improvement 6 per cent. loan of 1895.				6,600 00
Jones' Falls 6	"	"	1900.	28,000 00
" 5	"	"	1900.	71,100 00
Public Park 6	"	"	1890.	45,300 00
West. Md. Railroad 6	"	"	1902.	50,900 00
Water 5	"	"	1894.	178,200 00
" 5	"	"	1916.	297,900 00
Exempt 6	"	"	1893.	12,200 00
Consolidated 6	"	"	1893.	331,900 00
West. Md. Railroad 4	"	"	1925.	47,000 00
Jones' Falls 3	"	"	1900.	34,000 00
West. Md. Railroad 3 $\frac{1}{4}$	"	"	1927.	71,000 00
Western Maryland Railroad guaranteed bonds (registered).....				25,000 00
Western Maryland Railroad guaranteed bonds (coupon).....				48,000 00
Union R. R. guaranteed bonds (coupon)..				1,500 00

\$2,400,800 00

STATEMENT H.

Statement Showing the Monthly Returns of the "Keepers of the Standards of Weights and Measures," from
March 1, 1887, to December 31, 1887.

1887.	N. W. District.	S. W. District.	N. E. District.	S. E. District.	TOTALS.
March.....	\$341 19	\$235 89	\$.....	\$649 04	\$1,226 12
April.....	314 00	527 67	321 36	238 21	1,401 24
May.....	265 32	527 66	650 96	6 18	1,450 12
June.....	163 35	30 63	286 70	288 96	769 64
July.....	13 19	63 20	25 80	14 25	116 44
August.....	33 41	45 70	175 46	195 15	449 72
September.....	14 23	105 07	15 08	32 74	167 12
October.....	17 93	75 20	17 89	13 50	124 52
November.....	19 44	56 28	8 90	27 46	112 08
December.....	15 70	65 52	21 04	17 06	119 32
Totals.....	\$1,197 76	\$1,732 82	\$1,523 19	\$1,482 55	\$5,936 32



COMMUNICATIONS.

BALTIMORE, December 31, 1887.

JOHN A. ROBB, Esq., *City Register*:

DEAR SIR—The appropriations required for this Department for 1888 are as follows:

For repairs of city property, say:

For engine houses.....	\$7,000 00	
“ City Jail.....	3,000 00	
“ reslating roof of Jail....	2,800 00	
“ City Hall.....	3,500 00	
“ market houses.....	3,000 00	
“ court houses.....	2,500 00	
“ dog pound and other prop- erty.....	500 00	
		22,300 00

For repairs of public schools, say:

For repairs to schools.....	\$10,000 00	
“ painting schools.....	5,000 00	
“ draining wells	4,000 00	
“ new water closet at No. 6 School.....	1,300 00	
Amounts carried forward....	\$20,300 00	\$22,300 00

Amounts brought forward...	\$20,300 00	\$22,300 00
For grading and paving alley, building partition at No. 8, and building re- taining wall in rear of No. 8 Grammar and No. 30 Primary Schools, Hollins street, near Fulton.....	900 00	
“ substituting wood for plas- ter ceilings of school houses.....	3,000 00	
		24,200 00
For emptying cess-pools.....	2,000 00	
“ incidentals.....	100 00	
“ livery of two horses and repairs to wagons.....	600 00	
“ salaries.....	5,500 00	
“ completion of No. 14 Engine House..	9,700 00	
“ “ of Colored High and Grammar School.....	25,000 00	
“ “ No. 8 Primary School.....	9,000 00	
“ balance due on No. 21 Grammar School.	4,068 13	
“ balance due on No. 6 new Truck House, Hanover and Ostend streets.	1,907 19	
		\$104,375 32

Respectfully submitted,

J. THEO. OSTER,

Inspector of Buildings.

BALTIMORE, January 7, 1888.

JOHN A. ROBB, Esq., *City Register*:

DEAR SIR—Estimates of expenditures by the Board of Commissioners of Public Schools in 1888:

For salaries.....	\$615,000 00
“ rents and ground rents.....	36,000 00
“ books and stationery.....	45,000 00
“ heating apparatus, and its repairs.....	10,000 00
“ furniture.....	12,000 00
“ fuel.....	20,000 00
“ repairs and cleaning.....	9,000 00
“ printing, supplies, and incidentals....	9,500 00
“ Manual Training School.....	15,000 00
	\$771,500 00

By order of the committee,

HENRY M. COWLES,

Secretary.

BALTIMORE, January 10, 1888.

JOHN A. ROBB, Esq., *City Register*:

DEAR SIR—I am directed by the Board of Trustees of Bay View Asylum to inform you of the estimate for the maintenance of this institution. After due

consideration, the sum required will be eighty-five thousand dollars (\$85,000).

Very truly yours,

JOSEPH FRIEDENWALD,

President.

BALTIMORE, January 6, 1888.

JOHN A. ROBB, ESQ., *City Register:*

DEAR SIR--The estimated appropriations for this Department for the year 1888 are as follows:

Lamp-pillars and lamp account.....	\$ 21,968 00
Gas and electric light account.....	245,768 62
Keep of General Superintendent's horse and wagon.....	300 00

ESTIMATED RECEIPTS:

Inspecting and sealing gas meters.....	\$2,000 00
Repairs of lamps.....	100 00
	<u>\$2,100 00</u>

Very truly yours,

F. W. KING,

General Superintendent of Lamps, &c.

BALTIMORE, January 5, 1888.

JOHN A. ROBB, Esq., *City Register*:

DEAR SIR—The annexed is the estimate for the Fire Department for the year 1888:

Salaries	\$140,000 00
Apparatus	20,750 00
Apparatus repairs	4,000 00
Accident	3,000 00
Feed	10,000 00
Fuel	2,500 00
Furniture	700 00
Harness	500 00
Horse shoeing	1,500 00
Hose and sucking sleeves	9,000 00
Horses	6,000 00
Ground rent	1,054 25
Gas	1,000 00
Oils, grease, &c	1,500 00
Office expenses, including printing report and messenger's salary	1,200 00
Rent of telephone	600 00
Miscellaneous	1,000 00
Washing	1,500 00
Insurance	1,200 00
Sick account	1,500 00
Disabled firemen	3,500 00
P. and F. A. telegraph	24,000 00

Respectfully,

\$236,004 25J. ALEX. PRESTON, *President*,

JOHN F. HUNTER,

SAMUEL W. REGESTER,

Commissioners.

BALTIMORE, January 5, 1888.

JOHN A. ROBB, Esq., *City Register*:

DEAR SIR—We hereby certify that the sum of \$710,000 will be required for the Police Department of Baltimore City for the year 1888.

Very respectfully,

E. M. SCHRYVER,
ALFRED J. CARR,
JOHN Q. A. ROBSON,
Police Commissioners.

BALTIMORE, January 7, 1888.

JOHN A. ROBB, Esq., *City Register*:

DEAR SIR—The following is the estimated expenses of the Criminal Court, Record Office, and grounds for the year 1888:

Superintendent's salary	\$1,200 00
Watchman's salary	1,000 00
Janitor Criminal Court	350 00
Janitor Court Common Pleas, Grand Jury, and witness' rooms	350 00
Janitoress of ladies' room	300 00
Charwoman, cleaning and scrubbing, ...	300 00
Amount carried forward	\$3,500 00

Amount brought forward.....	\$3,500 00
Cleaning grounds, basements, grass, water closets, urinals, &c.....	120 00
100 tons of coal for Criminal, Superior, Common Pleas Courts, Petit Jury, Grand Jury, and clerks' offices, \$5 per ton.....	500 00
75 tons of coal for Record Office, \$5 per ton..	375 00
Gas for Criminal Court buildings, basements, and offices.....	200 00
Ice for Criminal, Superior, Court of Common Pleas, jury rooms, clerks' offices, &c.....	200 00
Ice coolers and repairing.....	30 00
7 cords of wood for same rooms as for coal, \$8 per cord.....	56 00
Whitewashing and coloring walls.....	100 00
Removing ashes and refuse.....	75 00
Repairing gas fixtures, globes, lighters.....	25 00
New gas fixtures Record Office and Court House buildings.....	35 00
Locks, keys, and repairs.....	20 00
New window curtains in Grand Jury, Superior Court room, and clerk's office.....	80 00
Brooms, buckets, brushes, towels, soap, soda, pearline, and incidentals.....	85 00
New furniture, chairs, desks, &c.....	150 00
New carpets, oil cloth, linoleum.....	200 00
Repairing stoves, heaters, grates.....	100 00
Repairing furniture in courts, Record Office, jury rooms, and clerks' offices.....	100 00
The following is required for sanitary purposes, as follows:	
Heating and ventilating Sheriff's Office....	175 00
Amount carried forward.....	\$6,126 00

Amount brought forward.....	\$6,126 00
Heating and ventilating Clerk's Office, Court Common Pleas.....	175 00
Heating and ventilating Superior Court room same as Court of Common Pleas...	250 00
	\$6,551 00

Respectfully submitted,

JAMES W. GEDDES,
Superintendent.

BALTIMORE, January 1, 1888.

JOHN A. ROBB, Esq., *City Register:*

DEAR SIR—The following is an estimate of requirements of old Masonic Hall, City and Circuit Courts:

Janitor.....	\$1,000 00
Watchman.....	900 00
Cleaning courts and offices.....	650 00
55 tons of coal.....	275 00
Ice.....	100 00
Gas.....	100 00
Brooms, buckets, &c.....	45 00
Whitewashing.....	15 00
Repairing furniture....	35 00
Cleaning carpets.....	38 00
New stove for Circuit Court.....	30 45
Amount carried forward.....	\$3,188 45

Amount brought forward.....	\$3,188 45
Gas stove, Clerk's Office, City Court.....	11 75
34½ yards of rubber, City Court.....	42 50
Large rug, Circuit Court.....	42 50
2 Rugs, Circuit Court.....	9 40
Carpet for Clerk's Office, City Court....	12 82
Cleaning sink.....	12 00
Cleaning and repairing stoves.....	38 00
Incidentals.....	100 00
	\$3,457 42

Respectfully submitted,

P. REILLY,

Janitor.

BALTIMORE, January 1, 1888.

JOHN A. ROBB, Esq., *City Register:*

Showing the amounts required for the City Commissioner's Department for the year ending 31st December, 1888:

Repairs of sewers and inlets ...	\$10,000 00
“ bridges.....	7,000 00
“ paved streets.....	85,000 00
“ unpaved streets.....	1,500 00
Flag and stepping stones.....	10,000 00
Paving and repaving in front of city property.....	1,000 00
Amount carried forward.....	\$114,500 00

Amount brought forward.....	\$114,500 00
Paving and repaving "cross streets"	10,000 00
Salaries.....	9,000 00
Livery.....	500 00
Incidentals.....	100 00
Light street bridge.....	3,000 00
Maintenance of floor of Calvert street bridge	536 05
" " St. Paul "	946 27
To complete Mosher street and Rutter's Run sewers.....	5,500 00
Improvement of Fulton avenue.....	5,500 00
Retaining wall, Falls road.....	16,000 00
Reconstruction of Central avenue sewer, near Orleans street.....	5,700 00
Paving streets in the Bolton property.....	6,211 07
Surveying instruments for the Department.	600 00
Monument to John Lee Chapman, formerly Mayor.....	600 00
	\$178,693 39

A. E. SMYRK,

City Commissioner.

BALTIMORE, January 9, 1888.

JOHN A. ROBB, Esq., *City Register:*

DEAR SIR—The following is the estimate of the expenses of this Department for the year ending December 31, 1888 :

Gas.....	\$4,800 00
Coal, 500 tons and 10 cords wood.....	2,700 00
Amount carried forward.....	\$7,500 00

Amount brought forward.....	\$7,500 00
Cleaning City Hall.....	7,320 00
Repairs to furniture and gas fixtures.....	1,800 00
Ice.....	500 00
Brushes, buckets, brooms, mops, soap, &c...	360 00
Removing ashes and dirt.....	165 00
Winding tower clock and fire alarm striker, and regulating and repairing all clocks in the hall, batteries, zincs, &c.....	500 00
Laborer, to general work about the hall....	720 00
New furniture, &c.....	500 00
Window shades.....	175 00
Rubber spittoons, &c.....	75 00
Incidentals—sand, sawdust, disinfectants, keys, repairs to locks, cleaning portico, advertising, repairing tools, shovels, towels, &c.....	425 00
Cleaning carpets, relaying, &c.....	300 00
Relining draperies.....	100 00
New carpets, &c., various departments.....	1,628 71
	\$22,068 71

Respectfully submitted,

W. P. RYAN,

Superintendent City Hall.

BALTIMORE, January 4, 1888.

JOHN A. ROBB, Esq., *City Register*:

DEAR SIR—I respectfully submit the following as my estimate of expenses for the Health Department for the year 1888:

General health.....	\$15,000 00
Salaries.....	32,100 00
Nuisances and sewers.....	15,000 00
Quarantine Hospital.....	20,000 00
Post mortems (by ordinance).....	1,000 00
	\$83,100 00

Yours, very truly,

JAMES A. STEUART, M.D.,
Commissioner of Health and Registrar.

BALTIMORE, January 2, 1888.

JOHN A. ROBB, Esq., *City Register:*

DEAR SIR—The following is the estimate of expenses for the Department of Street Cleaning for the year 1888:

134 garbage carts and men at \$18 per week.	\$125,424 00
56 street carts and men at \$18 per week....	52,416 00
120 sweepers and scrapers at \$10 per week.	62,400 00
Contract for removal of garbage, &c.....	9,000 00
Salaries.....	9,000 00
Dumps.....	4,500 00
Tools and incidentals.....	1,850 00
	\$264,590 00
Removal of snow.....	5,000 00
	\$269,590 00

Respectfully submitted,

B. E. SMITH,
Commissioner of Street Cleaning.

BALTIMORE, January 5, 1888.

JOHN A. ROBB, Esq., *City Register*:

DEAR SIR—I am directed by the Harbor Board to say that they propose the following expenditures during 1888:

Harbor.....	\$50,000 00
Quarantine Anchorage.....	10,000 00
Ice-boat:	
Expenses, maintenance, &c....	\$12,000 00
Repairs.....	3,000 00
	15,000 00
Bulkhead in City Dock:	
Unexpended balance.....	\$3,342 92
New appropriation.....	6,657 08
	10,000 00
Bulkhead at Little Hawkins' Point.....	4,000 00
Repairs of wharves—unexpended balance..	3,286 77
Resurvey of harbor and maps:	
Unexpended balance.....	\$312 74
New appropriation.....	187 26
	500 00
	\$92,786 77

Respectfully, &c.,

N. H. HUTTON,
Engineer.

BALTIMORE, January 5, 1888.

JOHN A. ROBB, ESQ., *City Register*:

DEAR SIR—I estimate that it will require seventy-five hundred dollars (\$7,500) for supplying stationery, blank books, and printed matter for the several departments of the city government for the year 1888.

Very respectfully,

SAMUEL D. SMITH,

City Librarian.

BALTIMORE, January 10, 1888.

JOHN A. ROBB, ESQ., *City Register*:

DEAR SIR—My estimate for the City Jail expenses for the current year is sixty thousand dollars.

Very respectfully,

JOHN WATERS,

Warden.

REPORT OF
THE DEPARTMENT OF FINANCE
FOR THE YEAR 1887.

REPORT.

DEPARTMENT OF FINANCE,

BALTIMORE, December 31st, 1887.

*To the Honorable the Members of the
First and Second Branches of the City Council:*

GENTLEMEN :

The Commissioners of Finance have the honor to submit herewith, for your consideration, statements in detail exhibiting their transactions during the year, as follows :

1. A summary of receipts and payments on account of the various Sinking Funds.
2. A statement of stocks and bonds purchased for the Sinking Funds.
3. A statement showing the amount of the Redemption and Sinking Funds.
4. A statement of the condition of the Enoch Pratt Free Library Sinking Fund.

5. A schedule of the real estate and ground rents from which income is derived.

6. A statement of the Funded and Guaranteed Debt.

7. A balance sheet of the Sinking Funds' ledger.

8. A statement of the indebtedness of the Western Maryland Railroad Company to the city.

9. A statement of the total liabilities of the Western Maryland Railroad Company.

The matters embraced in the foregoing are exhibited under the respective heads in a detailed form in the appendix to this report.

1.—RECEIPTS AND PAYMENTS.

The receipts have been derived as follows :

From Baltimore and Ohio Railroad Company, six months' dividend on stock	\$ 130,000 00
From Baltimore and Ohio Railroad Company, on account of purchase of Pittsburg and Connells- ville Railroad Bonds.....	40,000 00
From interest upon stocks and investments.....	311,047 31
From rental of real estate	24,275 35
From sales of stocks.....	1,604,396 85
Amount carried forward..	\$2,109,719 51

Amount brought forward..	\$2,109,719 51
From release of mortgage on Wednesday Club lot. .	10,552 78
From City Register, pro- ceeds of sale of securities in the Western Mary- land Railroad Sinking Fund, by Ordinance No. 11, 1886.	294,320 25
From Western Maryland Railroad Company, on account of redemption of bonds and funding certi- ficates.	55 75
From redemption of West- ern Maryland Railroad Second Mortgage Guar- anteed Bonds.	155,000 00
From Mayor and City Council, for paving certi- ficate.	1,072 58
From City Passenger Rail- way companies.	18,168 65
From Western Maryland Railroad Company for rent of Hillen Station to December 31, 1887, under contract by Ordinance No. 97, of 1875.	16,000 00
From Western Maryland Railroad Company for rent of depot to December 31, 1887, as per Ordinance No. 92, of 1882.	9,181 48
Amount carried forward..	<u>\$2,614,071 00</u>

Amount brought forward.	\$2,614,071 00	
From cash to credit of sinking funds, December 31, 1886	606,449 50	
		\$3,220,520 50

The payments have been as follows:

For investment purchases.	\$ 832,474 41	
For interest on stock debt.	252,145 00	
For redemption of Western Maryland Railroad bonds and scrip	1,895,086 00	
For redemption of Valley Railroad 1886 Loan	6,800 00	
For redemption of One Million 1886 Loan	10,863 49	
For redemption of Consolidated 1885 Loan	740 00	
For purchase of paving certificate of \$1,072.58	1,026 98	
For purchase of ground rents, as per Ordinance No. 81, of 1881	25,596 80	
For sundry expenses (as detailed in Statement No. 1 of Appendix)	849 27	
		\$3,025,581 95
Cash in bank to credit of funds		\$194,938 55

2.—INVESTMENT PURCHASES OF STOCKS AND BONDS.

This statement is submitted in obedience to Article XLII, Section 13, of the Baltimore City Code, and exhibits in detail the purchase of stocks and bonds amounting to \$821,470.27, at an average cost of $101\frac{334}{1000}$ per cent., the total amount of said purchase being\$832,474 41

3.—THE REDEMPTION AND SINKING FUNDS.

Exhibiting in detail the amount and condition of the investments of the funds, as shown by the books of the Commissioners of Finance, as follows:

General Sinking Fund...	\$5,251,696 77	
Public Park Sinking Fund	605,942 67	
Hillen Station Sinking Fund.....	28,141 41	
Western Maryland Rail- road Terminal Company Sinking Fund.....	6,127 64	
Western Maryland Rail- road 1925 Loan Sinking Fund.....	46,015 90	
Western Maryland Rail- road 1927 Loan Sinking Fund.....	101,317 00	
		\$6,039,241 39
Amount carried forward.		\$6,039,241 39

Amount brought forward.	\$6,039,241 39
-------------------------	----------------

Other Productive Investments.

Real estate as shown in Statement No. 4, from which an annual rental of \$7,746.76 is derived. This sum capitalized at six per cent. is worth...	\$129,112 00	
550 shares Baltimore and Reisterstown Turnpike Stock.....	2,062 50	
137 shares Baltimore and Frederick Turnpike Stock.....	456 66	
625 shares Baltimore and Yorktown Turnpike Stock.....	3,125 00	
		\$134,756 16

Unproductive Investments.

4,000 shares Western Mary- land Railroad Stock....	\$ 200,000 00	
Western Maryland Rail- road Company's mort- gage to secure indorse- ment.....	875,000 00	
Western Maryland Rail- road Company, loan of city stock.....	1,000,000 00	
Amounts carried forward.	\$2,075,000 00	\$6,173,997 55

Amounts brought forward.	\$2,075,000 00	\$6,173,997 55
Western Maryland Railroad Company, accrued interest advanced upon bonds guaranteed and stock loaned.....	2,155,500 00	
7,600 shares Baltimore and Susquehanna Canal Stock.....	380,000 00	
10,000 shares Valley Railroad Company of Virginia Stock.....	1,000,000 00	
120 shares Baltimore and Havre de Grace Turnpike Stock.....		
		\$5,610,500 00
		\$11,784,497 55

INCREMENT OF THE SINKING FUNDS.

The increment of the sinking funds from December, 31, 1886, to December 31, 1887, amounting to	\$ 295,816 32
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Was derived thus:

Amount of stock issued to the Commissioners of Finance, in trust for the Western Maryland Railroad $3\frac{1}{4}$ per cent. 1927 Loan Sinking Fund, as per Ordinance No. 11, of 1886.....	\$100,000 00
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Amount carried forward.	\$100,000 00
-------------------------	--------------

Amount brought forward.	\$100,000 00
From interest upon investments.....	268,855 91
From dividend on Baltimore and Ohio Railroad Stock	130,000 00
From release of mortgage on Wednesday Club lot.	10,552 78
From rent of Hillen Stat'n.	\$16,000 00
Less amount set apart for sinking fund.	2,000 00
	14,000 00
From rent of Western Maryland Railroad Terminal Company Depot.....	\$9,181 48
Less amount set apart for sinking fund.	1,311 60
	7,869 88
From rental of real estate.	24,275 35
From premium on sales of \$393.85 fractions of stock.....	3 00
From City Passenger Railway Company.....	6,342 81
Amount carried forward..	\$561,899 73

Amount brought forward..	\$561,899 73	
From Central Passenger Railway Company.....	1,499 94	
From North Baltimore Passenger Railway Com- pany	3,675 89	
From York Road Passen- ger Railway Company.	285 55	
From Citizen's Passenger Railway Company.....	3,333 76	
From Union Passenger Railway Company.....	1,419 82	
From People's Passenger Railway Company.....	1,438 07	
From Highlandtown and Point Breeze Railway Company	172 81	
		\$573,725 57
Deduct:		
Amount paid Mayor and City Council on account of interest on stock debt.....	\$130,000 00	
Amount paid for interest on Western Maryland Railroad 1902 Loan....	60,000 00	
Amount paid for interest on Western Maryland Railroad Guaranteed Bonds.....	62,145 00	
Amounts carried forward.	\$252,145 00	\$573,725 57

Amounts brought forward.	\$252,145 00	\$573,725 57
Amount paid for premium on stock purchased....	6,048 01	
Amount paid for accrued rent on ground rents purchased.....	463 48	
Amount paid for sundry expenses	849 27	
Amount paid for redemp- tion of Valley Railroad 1886 Loan.....	6,800 00	
Amount paid for redemp- tion of One Million 1886 Loan.....	10,863 49	
Amount paid for redemp- tion of Consolidated 1885 Loan.....	740 00	
		\$277,909 25
		\$295,816 32

And disbursed as shown by Statement No. 1 of Appendix.

4.—ENOCH PRATT FREE LIBRARY SINKING FUND.

This statement shows the condition of the Enoch Pratt Free Library Sinking Fund on December 31st, 1887, under the control of the Commissioners of Finance, who are required "to invest the interest upon the investments in the Sinking Fund, and the interest upon the interest, as the same shall be received, in the public debt of the city of Baltimore, until the annual income from said investments shall reach the sum

of fifty thousand dollars." (Article 38 A, Section 8, Supplement to the Baltimore City Code of 1885.)

5.—REAL ESTATE AND GROUND RENTS.

The schedule of real estate and ground rents presented in this form for convenience of reference, embraces only so much of the city property as is in control and shown upon the books of this Board, and from which income is derived by rentals.

The income derived from the public wharves and other valuable property being applied to current expenditures, does not appear in these accounts. (Baltimore City Code, Article XLII, Section 14.)

6.—THE FUNDED DEBT AND GUARANTEES.

These issues at the present date amount

to	\$36,369,176 15
At date of last report, December 31,	
1886, they amounted to	34,955,289 64

Showing an increase during the past

fiscal year of	\$1,413,886 51
----------------------	----------------

Thus:

Amount of Jones' Falls

$3\frac{6}{10}\frac{5}{0}$ per cent. 1900

Loan issued. \$ 135,000 00

Amount of Harford Run

Sewer 4 per cent. 1904

Loan issued..... 90,000 00

Amount of Western Mary-

land Railroad $3\frac{1}{4}$ per

cent. 1927 Loan issued . 1,704,000 00

\$1,929,000 00

Amount brought forward.	\$1,929,000 00	
Less amount		
of Western		
Maryland		
Railroad		
Guaranteed		
Bonds re-		
deemed....	\$496,710 00	
Less amount of		
Valley Rail-		
road Loan		
redeemed...	6,800 00	
Less amount		
of One Mill-		
ion Loan re-		
deemed....	10,863 49	
Less amount		
of Consoli-		
dated 5 per		
cent. Loan		
redeemed ..	740 00	
		\$515,113 49
		\$1,413,886 51

INCREASE OF FUNDED DEBT AUTHORIZED.

The Jones' Falls Loan, by	
Ordinance No. 12, of 1870.	\$ 188,000 00
The completion of the im-	
provement of Harford	
Run Sewer 4 per cent.	
1904 Loan, by Ordinance	
No. 115, of 1884.....	103,300 00
Amount carried forward...	\$291,300 00

Amount brought forward..\$	291,300 00	
The Water 4 per cent. 1926		
Loan, authorized by Ordinance No. 99, of 1887, which is supplementary to and amendatory of Ordinance No. 82, of 1886	1,000,000 00	
		\$1,291,300 00

THE FINANCIAL CONDITION OF THE CORPORATION.

Amount of funded debt,		
December 31, 1887....	\$35,377,176 15	
Amount of guaranteed debt, December 31, 1887.....	992,000 00	
		\$36,369,176 15
Of this amount interest is provided or paid as follows:		
The Baltimore and Ohio Railroad Company upon..	\$5,000,000 00	
The city passenger railway companies upon...	755,566 25	
The Water Board, from income, upon.....	9,500,000 00	
The Union Railroad Company upon.....	117,000 00	
The Western Maryland Railroad Company upon	2,388,000 00	
Overdue stock, no interest allowed.....	6,927 96	
Overdue Western Maryland Railroad bonds, no interest allowed.....	3,290 00	
		17,770,784 21
		\$18,598,391 94

Productive Investments.

32,500 shares Baltimore and Ohio Railroad Stock.	\$3,250,000 00
Value of Sinking Funds.	6,039,241 39
550 shares Baltimore and Reisterstown Turnpike Stock.....	2,062 50
137 shares Baltimore and Frederick Turnpike Stock.....	456 66
625 shares Baltimore and Yorktown Turnpike Stock.....	3,125 00
Real estate, annual rental	\$7,746 76
Wharf property, annual rental.....	38,000 00
Market houses, annual rental	50,000 00
	\$95,746 76
This provides interest upon.....	1,595,779 00
	\$10,890,664 55

Unproductive Investments.

4,000 shares Western Maryland Railroad Company.....	\$200,000 00
Amount carried forward..	\$200,000 00

Amount brought forward.	\$ 200,000 00
Western Maryland Railroad Company, mortgages to secure endorsements and loan of city stock.....	3,579,000 00
Western Maryland Railroad Company, accrued interest advanced.....	2,155,500 00
7,600 Baltimore and Susquehanna Canal Stock	380,000 00
10,000 shares Valley Railroad Company of Virginia Stock.....	1,000,000 00
120 shares Baltimore and Havre de Grace Turnpike Stock.....	no value
	\$7,314,500 00

This statement does not embrace any items connected with current receipts and expenditures, but refers only to the stock and bond liabilities of the corporation, and to investments specially set apart for the redemption of the same.

The accounts now submitted for your consideration exhibit in detail all the transactions of the past year.

They show the receipts from all sources

to have been	\$3,220,520 50
--------------------	----------------

Amount carried forward.....	\$3,220,520 50
-----------------------------	----------------

Amount brought forward.	\$3,220,520,50
And the disbursements to have been as follows:	
For investment purchases (see Statement No. 2 Appendix)	\$ 832,474 41
For interest paid upon a part of the funded debt.	252,145 00
For redemption of West- ern Maryland Railroad bonds and scrip.....	1,895,086 00
For redemption of Val- ley Railroad 1886 Loan.	6,800 00
For redemption of Con- solidated 1885 Loan....	740 00
For redemption of One Million 1886 Loan.....	10,863 49
For purchase of a paving certificate	1,026 98
For purchase of ground rents as per Ordinance No. 81, 1881	25,596 80
For sundry expenses....	849 27
	\$3,025,581 95
Balance, cash in bank to credit of funds.....	\$194,938 55
The present value of the sinking funds investments, represented in Statement No. 3, Appendix, is	\$6,039,241 39
The value of the same on December 31, 1886, was	5,743,425 07
Thus showing the increase of the funds during the year to be	\$295,816 32

A sale of \$80,000 Jones' Falls $3\frac{5}{8}$ per cent Loan of 1900 was made by public advertisement, inviting competitive bids, on May 2, 1887, at a premium of \$3,600.

A sale of \$55,000 of the same issue of stock was made by public advertisement, inviting competitive bids, on November 1, 1887, at a premium of \$1,451.50.

Sales of \$90,000 Completion of Harford Run Sewer 4 per cent. 1904 Loan were made from time to time at a premium of \$7,575.

REDEMPTION OF WESTERN MARYLAND RAILROAD BONDS.

As required by Section 1, of Ordinance No. 11, approved March 10, 1886, the City Register issued and turned over to the Commissioners of Finance certificates of stock of the Mayor and City Council of Baltimore amounting to \$1,704,000, bearing interest at the rate of $3\frac{5}{8}$ per centum per annum, and redeemable forty years from January 1, 1887.

One hundred thousand dollars of said stock was retained by this Board as a basis for a sinking fund for the redemption of said stock at maturity, as enacted by Section 4, of the above-named ordinance, and the balance (\$1,604,000) of said stock was sold and exchanged by the Commissioners of Finance, realizing.....\$1,604,000 00

The City Register paid to this Board the proceeds of the sale of the securities in the Western Maryland Railroad Sinking Fund, under his charge, amounting to.. 294,320 25

Amount carried forward.....\$1,898,320 25

Amount brought forward.....	\$1,898,320 25
And it received from the Western Maryland Railroad Company.....	55 75

Making the total amount received from
the several sources.....\$1,898,376 00

Which was to be applied to "the payment and extinguishment" of all the first three issues of bonds of the Western Maryland Railroad Company, viz.: "The first mortgage bonds, the second preferred mortgage bonds, and the second mortgage bonds and the overdue coupons on said first mortgage bonds and said second preferred mortgage bonds, except so much of said second preferred mortgage bonds and of the overdue coupons on first mortgage bonds and second preferred mortgage bonds as are held by the Mayor and City Council of Baltimore."

The first mortgage issue amounted to.....	\$600,000 00	
The second mortgage issue amounted to.....	600,000 00	
The second preferred mortgage issue amounted to.	600,000 00	
The funding certificates for overdue coupons held in escrow by the Safe Deposit and Trust Co. of this city amounted to.....	546,906 00	
		\$2,346,906 00

Amount brought forward.		\$2,346,906 00
Amount of first mortgage bonds held in sinking fund	\$ 43,500 00	
Amount of second preferred mortgage bonds held in sinking fund...	178,500 00	
Amount of funding certificates held in sinking fund	226,530 00	
		\$448,530 00
Leaving total amount to be redeemed at.....		\$1,898,376 00

Prior to commencement of the redemption of these bonds the Western Maryland Railroad Company "executed and delivered a mortgage to the Mayor and City Council of Baltimore of all the property and revenue of the said company, and of all property and revenue hereafter to be acquired by said company," as required by Section 3, of said Ordinance No. 11, of 1886, which mortgage was caused to be duly recorded in the city of Baltimore and the several counties through which the road passes.

The Western Maryland Railroad Company also, as stipulated in Section 5, of said Ordinance No. 11, of 1886, deposited with the "Mayor and Commissioners of Finance the agreement of the County Commissioners of Washington county, approved by the General Assembly of Maryland, that the said County Commissioners of Washington county will, upon the payment of the \$300,000 of the second mortgage bonds

of the said company, guaranteed by the said County Commissioners, surrender all the coupons of said bonds which may have been paid by the said County Commissioners up to the time of the payment of said \$300,000 of the bonds of the Western Maryland Railroad Company, and accept in lieu and in full satisfaction for said unpaid coupons the preferred stock of the Western Maryland Railroad Company.”

All the other legal requirements of said ordinance having been complied with, the Commissioners of Finance commenced the redemption of the aforesaid bonds and certificates, on January 3, 1887; and up to and inclusive of December 31, 1887, have redeemed:

Of the first mortgage.....\$	557,000 00	
Of the second mortgage ..	599,000 00	
Of the second preferred		
mortgage	421,500 00	
Of the funding certificates	317,589 00	
		\$1,895,089 00

Leaving \$3,287 of bonds and certificates to be redeemed when presented, and also a coupon due January 1, 1890, for \$3.00, which was detached from a \$100 First Mortgage Bond redeemed November 16, 1887, for which \$97 only was paid.

Respectfully submitted,

FERDINAND C. LATROBE, *Chairman,*

ENOCH PRATT,

DOUGLAS H. THOMAS,

Commissioners of Finance.

JOHN A. ROBB,

Clerk to Commissioners of Finance.

APPENDIX.

STATEMENT

DR. *The Commissioners of Finance in account*

To balance of cash in bank to credit of sinking funds December 31, 1886.....	\$ 606,449 50
---	---------------

To General Sinking Fund:

Received from sales of \$393.85 of fractions of city stock.....	\$ 396 85	
Received from rental of real estate.....	24,275 35	
Received from rental of Hillen Station.....	14,000 00	
Received from rental of Western Maryland Rail- road Terminal Com- pany's Depot.....	7,869 88	
Received of John Curlett for release of mortgage on Wednesday Club lot.	10,552 78	
Received for interest on stocks and investments.	234,066 31	
Received for account of sale of Pittsburg and Connellsville Railroad Bonds.....	40,000 00	
Amounts carried forward.	\$331,161 17	\$606,449 50

No. 1.

with the Mayor and City Council of Baltimore. Cr.*By General Sinking Fund:*

Purchased fractions of city stock.....	\$ 170 27
Purchased \$699,700 West- ern Maryland Railroad 3½ per cent. 1927 Loan, at par.....	699,700 00
Purchased redeemable ground rents, as author- ized by Ordinance No. 81, of 1881.....	25,596 80
Paid one year's interest on Western Maryland Rail- road 6 per cent. 1902 Loan.....	60,000 00
Paid one year's interest on Western Maryland Rail- road Third Mortgage Bonds, and six months' interest on Western Maryland Railroad Second Mortgage Bonds.	62,145 00
Paid for redemption of Valley Railroad 6 per cent. 1886 Loan....	6,800 00

Amount carried forward.. \$854,412 07

STATEMENT

DR. *The Commissioners of Finance in account*

Amounts brought forward.	\$331,161 17	\$606,449 50
Received for redemption of Western Maryland Railroad Second Mort- gage Guaranteed Bonds.	155,000 00	
		486,161 17

*To Public Park Sinking
Fund:*

Received for interest on stocks	\$30,886 50	
Received of Mayor and City Council for paving certificate	1,072 58	
Received from City Pas- senger Railway Com- pany	6,342 81	
Received from Central Passenger Railway Com- pany	1,499 94	
Received from North Bal- timore Passenger Rail- way Company	3,675 89	
Received from York Road Passenger Railway Com- pany	285 55	
Amounts carried forward.	\$43,763 27	\$1,092,610 67

No. 1—Continued.

with the Mayor and City Council of Baltimore. Cr.

Amount brought forward.	\$854,412 07	
Paid for redemption of One Million 6 per cent. 1886 Loan....	10,863 49	
Paid for redemption of Consolidated 5 per cent. 1885 Loan....	740 00	
Paid for printing report, advertising, &c.....	221 50	
Paid for clerical services.	300 00	
Paid for sundry expenses.	327 77	
		\$866,864 83

*By Public Park Sinking
Fund:*

Purchased \$41,500 Con- solidated 6 per cent. 1890 Loan....	\$44,400 01	
Purchased \$23,100 Five Million 6 per cent. 1890 Loan.....	24,551 00	
Purchased \$10,400 Public Park 6 per cent. 1890 Loan.....	11,336 00	
Purchased \$1,400 Jones' Falls 3 per cent. 1900 Loan.....	1,387 50	
Amounts carried forward.	\$81,674 51	\$866,864 83

STATEMENT

Dr. *The Commissioners of Finance in account*

Amounts brought forward.	\$43,763 27	\$1,092,610 67
Received from Citizens' Passenger Railway Com- pany	3,333 76	
Received from Union Pas- senger Railway Com- pany	1,419 82	
Received from Peoples' Passenger Railway Com- pany	1,438 07	
Received from Baltimore and Highlandtown Pas- senger Railway Com- pany	172 81	
		\$50,127 73

*To Hillen Station Sinking
Fund:*

Received for interest on stocks	\$ 1,273 00	
Received from Western Maryland Railroad Com- pany for one-eighth rent of station	2,000 00	
		\$3,273 00
Amount carried forward..		\$1,146,011 40

No. 1—Continued.

with the Mayor and City Council of Baltimore. CR.

Amounts brought forward.	\$81,674 51	\$866,864 83
Purchased Paving Certificate of \$1,072.58 for...	1,026 98	
		82,701 49

By Hillen Station Sinking Fund:

Purchased \$1,000 Park Improvement 6 per cent. 1895 Loan.....	\$1,162 50	
Purchased \$1,200 Western Maryland Railroad 6 per cent. 1902 Loan....	1,530 00	
Purchased \$1,200 Consolidated 6 per cent. 1890 Loan.....	1,263 00	
		3,955 50

By Western Maryland Railroad Terminal Company Sinking Fund:

Purchased \$500 Consolidated 6 per cent. 1890 Loan.....	\$526 25	
Amounts carried forward.	\$526 25	\$953,521 82

STATEMENT

DR. *The Commissioners of Finance in account*

Amount brought forward. \$1,146,011 40

*To Western Maryland
Railroad Terminal Co.
Sinking Fund:*

Received from interest on
stocks \$ 264 00

Received from Western
Maryland Railroad Com-
pany, one-seventh rent
of depot 1,311 60

1,575 60

*To Western Maryland
Railroad 1925 Loan
Sinking Fund:*

Received from interest on
stocks 2,228 00

*To Western Maryland
Railroad 1927 Loan
Sinking Fund:*

Received from interest on
stocks 1,629 50

*To Redemption of West-
ern Maryland Railroad
Bonds.*

Received from proceeds of
sales of \$1,604,000 West-
ern Maryland Railroad
3½ per cent. 1927 Loan. \$1,604,000 00

Amounts carried forward. \$1,604,000 00 \$1,151,444 50

No. 1—Continued.

with the Mayor and City Council of Baltimore. Cr.

Amounts brought forward.	\$526 25	\$953,521 82
Purchased \$1,000 Western Maryland Railroad Third Mortgage Guarant- eed Bond.....	1,230 00	
		1,756 25

*By Western Maryland
Railroad 1925 Loan
Sinking Fund:*

Purchased \$1,600 City Hall 6 per cent. 1902 Loan.....	\$2,040 00	
Purchased \$100 Consoli- dated 6 per cent. 1890 Loan.....	421 00	
		2,461 00

*By Western Maryland
Railroad 1927 Loan
Sinking Fund:*

Purchased \$300 City Hall 6 per cent 1902 Loan...	\$ 382 00	
Purchased \$1,000 Western Maryland Railroad Third Mortgage Guarant- eed Bond.....	1,230 50	
		1,612 50
Amount carried forward..		\$959,351 57

STATEMENT

DR. *The Commissioners of Finance in account*

Amounts brought forward. \$1,604,000 00 \$1,151,444 50

Received from City Register the proceeds of the sale of bonds and stocks in the Western Maryland Railroad Sinking Fund by virtue of Ordinance No. 11, of 1886 .. 294,320 25

Received of Western Maryland Railroad Company to complete amount required for the redemption of bonds 55 75

1,898,376 00

To Enoch Pratt Free Library Sinking Fund:

Received from interest on stocks 40,700 00

To Baltimore and Ohio Railroad Dividends:

Received for six months' dividend on 32,500 shares of stock 130,000 00

\$3,220,520 50

No. 1—Concluded.

with the Mayor and City Council of Baltimore. CR.

Amount brought forward.		\$ 959,351 57
<i>By Redemption of Western Maryland Railroad Bonds:</i>		
Paid for redemption of bonds and scrip.....		1,895,086 00
<i>By Enoch Pratt Free Library Sinking Fund:</i>		
Purchased \$27,000 Consolidated 6 per cent. 1890 Loan.....	\$28,644 38	
Purchased \$10,000 Western Maryland Railroad 6 per cent. Third Mortgage Guaranteed Bonds.	12,500 00	
		41,144 38
<i>By Baltimore and Ohio Railroad Dividends:</i>		
Paid Mayor and City Council for interest on stock debt.....		130,000 00
By balance, cash in bank to credit of sinking funds.....		194,938 55
		\$3,220,520 50

STATEMENT No. 2.

"The Commissioners of Finance shall invest in city stock all moneys in their hands, or to their credit in bank, received for the sale or rent of city property, pledged for the redemption of the public debt; and shall also invest all moneys that may hereafter be received from the above-mentioned sources, as well as all interest accruing thereon, from time to time, and report to the City Council the amount purchased, and the dates and prices at which they were purchased." (Article XLII, Section 13, City Code).

DATE.	SINKING FUND.	AMOUNT PURCHASED.	DESCRIPTION OF STOCK.	AMOUNT PAID.
1887.				
Jan. 4	General	\$579,100 00	W. Md. R.R. 3 1/2 per ct. 1927 Loan	\$579,100 00
" 13	Knock Pratt Library.....	3,300 00	Consolidated 5 per ct. 1890 "	3,564 00
" 25	Public Park.....	1,000 00	" 6 per ct. 1890 "	1,085 00
" 25	"	11,100 00	Five Million 6 per ct. 1890 "	11,960 25
" 25	"	10,100 00	Public Park 6 per ct. 1890 "	11,336 00
" 26	"	3,200 00	Five Million 6 per ct. 1890 "	3,448 00
" 26	"	2,600 00	Consolidated 6 per ct. 1890 "	2,821 00
" 27	"	300 00	Five Million 6 per ct. 1880 "	324 00
" 27	"	1,000 00	Consolidated 6 per ct. 1890 "	1,085 00
" 31	"	400 00	" 6 per ct. 1890 "	434 00
Feb. 5	"	400 00	Jones' Falls 3 per ct. 1900 "	400 00
Mar. 2	"	4,900 00	Consolidated 6 per ct. 1890 "	5,341 00
" 3	"	100 00	" 6 per ct. 1890 "	108 75

" 25	"	500 00	Jones' Falls 3 per ct. 1900 Loan	500 00
Ap'l 19	Enoch Pratt Library.	2,700 00	Consolidated 6 per ct. 1890 "	2,905 88
" 23	Public Park	2,300 00	" 6 per ct. 1890 "	2,475 00
" 24	"	2,700 00	" 6 per ct. 1890 "	2,905 88
May 18	Enoch Pratt Library.	1,400 00	" 6 per ct. 1890 "	1,506 75
" 20	"	10,000 00	W. Md. R. R. 6 per ct. reg'd bonds	12,500 00
J'ne 10	General	120,600 00	" 3 1/4 per ct. 1927 Loan	120,600 00
" 20	Public Park	5,100 00	Consolidated 6 per ct. 1890 "	5,444 25
July 1	"	3,000 00	" 6 per ct. 1890 "	3,214 00
" 5	"	900 00	" 6 per ct. 1890 "	965 25
" 7	Enoch Pratt Library.	3,000 00	" 6 per ct. 1890 "	3,202 50
" 9	Public Park	1,500 00	" 6 per ct. 1890 "	1,601 25
" 12	"	2,000 00	" 6 per ct. 1890 "	2,135 00
" 14	Hillen Station.	1,000 00	Park Im'pt 6 per ct. 1895 "	1,162 50
" 14	Enoch Pratt Library.	300 00	Consolidated 6 per ct. 1890 "	319 50
" 16	Hillen Station	1,200 00	W. Md. R. R. 6 per ct. 1902 "	1,530 00
" 16	W. Md. R. R. 1925 Loan.	1,600 00	City Hall 6 per cent. 1902 "	2,040 00
" 25	" Term'l Co.	1,000 00	W. Md. R. R. 3d mortgage bonds	1,230 00
" 25	" 1927 Loan.	1,000 00	" " "	1,230 00
" 25	" " "	300 00	City Hall 6 per ct. 1902 Loan	382 50
Aug. 2	Public Park	4,000 00	Consolidated 6 per ct. 1890 "	4,280 00
" 30	"	500 00	Jones' Falls 3 per ct. 1900 "	487 50
Oct. 10	"	8,500 00	Five Million 6 per ct. 1890 "	8,818 75
Am'ts carried forward..				\$802,443 51

STATEMENT No. 2—Continued.

DATE.	SINKING FUND.	AMOUNT PURCHASED.	DESCRIPTION OF STOCK.	AMOUNT PAID.
1887.				
Oct. 26	Am'ts brought forward.	\$792,900 00.	Consolidated 6 per ct. 1890 Loan	\$802,443 51
" 31	Enoch Pratt Library.....	4,000 00	" 6 per ct. 1890 "	4,200 00
Nov. 1	Public Park.....	5,000 00	" 6 per ct. 1890 "	5,250 00
" 3	"	1,300 00	" 6 per ct. 1890 "	1,365 00
" 4	"	900 00	" 6 per ct. 1890 "	946 13
" 5	"	2,800 00	" 6 per ct. 1890 "	2,943 50
" 8	Enoch Pratt Library.....	6,800 00	" 6 per ct. 1890 "	7,157 00
" 9	"	2,000 00	" 6 per ct. 1890 "	2,105 00
" 10	"	3,000 00	" 6 per ct. 1890 "	3,157 50
" 15	"	200 00	" 6 per ct. 1890 "	210 50
" 15	W. Md. Term'l Co.....	500 00	" 6 per ct. 1890 "	526 25
" 15	Enoch Pratt Library....	300 00	" 6 per ct. 1890 "	315 75
" 15	Hillen Station.....	1,200 00	" 6 per ct. 1890 "	1,263 00
" 15	W. Md. 1925 Loan.....	400 00	" 6 per ct. 1890 "	421 00
Dec. 31	General	170 27	Fractions of City Stock.....	170 27
		\$821,470 27		\$832,474 41

STATEMENT No. 2—Concluded.

RECAPITULATION.

DATE.	SINKING FUND.	AMOUNT PURCHASED.	DESCRIPTION OF STOCK.	AMOUNT PAID.
1887.				
Dec. 31	General	\$699,700 00	Three $\frac{2\frac{1}{2}}{100}$ per cent. stock.	\$699,700 00
" 31	"	170 27	Fractions of six per cent. stock.	170 27
" 31	Public Park.	1,400 00	Three per cent. stock.	1,387 50
" 31	"	75,000 00	Six per cent. stock.	80,287 01
" 31	Hillen Station	3,400 00	" " " " " " " " " " " "	3,955 50
" 31	W. Md. Term'l Co.	1,500 00	" " " " " " " " " " " "	1,756 25
" 31	W. Md. 1925 Loan.	2,000 00	" " " " " " " " " " " "	2,461 00
" 31	W. Md. 1927 Loan.	1,300 00	" " " " " " " " " " " "	1,612 50
" 31	Pratt Library.	37,000 00	" " " " " " " " " " " "	41,144 38
		\$821,470 27		\$832,474 41

STATEMENT No. 3.

*Condition of Sinking Funds, December 31, 1887.**General Sinking Fund:*

Consolidated 6 per cent.		
1890 Loan.....	\$	81,497 38
Five Million 6 per cent.		
1890 Loan.....		122,672 05
City Hall 6 per cent. 1900		
Loan		56,600 00
City Hall 6 per cent. 1902		
Loan		13,400 00
Funding 6 per cent. 1900		
Loan		134,600 00
Western Maryland Rail- road 6 per cent. 1902		
Loan		20,800 00
Park Improvement 6 per cent. 1895 Loan....		72,158 80
Public Park 6 per cent.		
1890 Loan....		10,489 16
Consolidated 6 per cent.		
1893 Loan.....		1,250,341 38
Jones' Falls 6 per cent.		
1900 Loan....		5,100 00
Exempt 6 per cent. 1893		
Loan		353 87
		\$1,768,012 64
Amount carried forward.		\$1,768,012 64

STATEMENT No. 3—Continued.

Amount brought forward.		\$1,768,012 64
Water 5 per cent. 1894		
Loan.....	\$395,300 00	
Jones' Falls 5 per cent.		
1900 Loan.....	120,500 00	
Water 5 per cent. 1916		
Loan.....	7,400 00	
		523,200 00
Harford Run 4 per cent.		
1920 Loan.....	\$ 36,000. 00	
Western Maryland Rail- road 4 per cent. 1925		
Loan.....	109,200 00	
Patterson Park 4 per cent.		
1920 Loan.....	5,000 00	
		150,200 00
Western Maryland Rail- road $3\frac{1}{4}$ per cent. 1927		
Loan.....		699,700 00
Jones' Falls 3 per cent.		
1900 Loan.....		14,500 00
Union Railroad Company		
First Mortgage Guar- anteed Bonds.....		87,500 00
Western Maryland Rail- road Company First Mortgage Guaranteed Bonds.....		43,500 00
Amount carried forward.		\$3,286,612 64

STATEMENT No. 3—Continued.

Amount brought forward.	\$3,286,612 64
Western Maryland Railroad Company Third Mortgage (registered) Guaranteed Bonds.....	207,000 00
Western Maryland Railroad Company Third Mortgage (coupon) Guaranteed Bonds.....	18,000 00
Western Maryland Railroad Company Second Preferred Mortgage (coupon) Guaranteed Bonds.	178,500 00
Western Maryland Railroad Company Funding Certificates	226,530 00
Western Maryland Railroad Company unendorsed coupons of First Mortgage Bonds.....	71,742 00
Obligation of Baltimore and Ohio Railroad Company, received for claim of Mayor and City Council against the Pittsburg and Connellsville Railroad Company, as authorized by Ordinance No. 47, of 1875.....	\$1,000,000 00
Amounts carried forward.	\$1,000,000 00
	\$3,988,384 64

STATEMENT No. 3—Continued.

Amounts brought forward.	\$1,000,000 00	\$3,988,384 64
Less amount paid by the Baltimore and Ohio Railroad Company on account of said purchase.....	480,000 00	
		520,000 00
Hillen Station property..	\$200,000 00	
Less amount of Sinking Fund set apart for the repayment of the cost thereof.....	28,141 41	
		171,858 59
Amount invested in depot property of the Western Maryland Railroad Ter- minal Company, as per Ordinance No. 92, of 1882	\$131,163 81	
Less amount of Sinking Fund set apart for the repayment of the cost thereof.....	6,127 64	
		125,036 17
Ground rents, purchase of which was authorized by Ordinance No. 81, of 1881		255,777 28
Cash		190,640 09
		<u>\$5,251,696 77</u>

STATEMENT No. 3—Continued.

Public Park Sinking Fund:

Consolidated 6 per cent.

1890 Loan.....\$ 124,100 00

Five Million 6 per cent.

1890 Loan..... 42,100 00

City Hall 6 per cent.

1900 Loan..... 8,600 00

Funding 6 per cent.

1900 Loan..... \$ 1,700 00

Park Improvement 6 per

cent. 1895 Loan..... 9,600 00

Public Park 6 per cent.

1890 Loan..... 17,000 00

Consolidated 6 per cent.

1893 Loan..... 139,500 00

Exempt 6 per cent. 1893

Loan..... 900 00

Western Maryland Rail-

road 6 per cent. 1902

Loan..... 7,300 00

Jones' Falls 6 per cent.

1900 Loan..... 1,300 00

\$352,100 00

Jones' Falls 5 per cent.

1900 Loan..... \$95,000 00

Water 5 per cent. 1894

Loan..... 93,500 00

Funding 5 per cent. 1916

Loan..... 16,000 00

204,500 00

Amount carried forward.

\$556,600 00

STATEMENT No. 3—Continued.

Amount brought forward.		\$556,600 00
Harford Run 4 per cent.		
1920 Loan.....	\$14,000 00	
Paving 4 per cent. 1920		
Loan.....	31,000 00	
Harford Run Sewer 4 per		
cent 1904 Loan.....	1,700 00	
		46,700 00
Jones' Falls 3 per cent.		
1900 Loan.....		1,900 00
Cash.....		742 67
		\$605,942 67

*Hillen Station Sinking
Fund:*

Consolidated 6 per cent.		
1890 Loan.....	\$3,500 00	
Five Million 6 per cent.		
1890 Loan.....	600 00	
City Hall 6 per cent. 1900		
Loan.....	1,300 00	
Consolidated 6 per cent.		
1893 Loan.....	100 00	
Western Maryland Rail-		
road 6 per cent. 1902		
Loan.....	2,700 00	
Funding 6 per cent. 1900		
Loan.....	100 00	
Amount carried forward.	\$8,300 00	

STATEMENT No. 3—Continued.

Amount brought forward.	\$8,300 00	
Jones' Falls 6 per cent.		
1900 Loan... ..	400 00	
Park Improvement 6 per cent. 1895 Loan.....	1,000 00	
		\$9,700 00
Western Maryland Railroad 6 per cent. Third Mortgage Guaranteed Bond.....		500 00
Jones' Falls 5 per cent.		
1900 Loan.....	\$8,000 00	
Water 5 per cent. 1894 Loan.....	4,700 00	
Funding 5 per cent. 1916 Loan.....	1,900 00	
		14,600 00
Paving 4 per cent. 1920 Loan.....		3,000 00
Cash		341 41
		<u>\$28,141 41</u>

Western Maryland Railroad Terminal Company Sinking Fund:

Consolidated 6 per cent. 1890 Loan.....	\$2,200 00
Five Million 6 per cent. 1890 Loan.....	300 00
Amount carried forward..	\$2,500 00

STATEMENT No. 3—Continued.

Amount brought forward.	\$2,500 00	
Consolidated 6 per cent. 1893 Loan.....	100 00	
City Hall 6 per cent. 1900 Loan.....	800 00	
City Hall 6 per cent. 1902 Loan.....	100 00	
Western Maryland Rail- road 6 per cent. 1902 Loan.....	800 00	
Funding 6 per cent 1900 Loan.....	300 00	
Jones' Falls 6 per cent. 1900 Loan.....	300 00	
		\$4,900 00
Western Maryland Rail- road 6 per cent. Third Mortgage Guarant- eed Bond.....		1,000 00
Cash.....		227 64
		\$6,127 64

*Western Maryland Rail-
road 1925 Loan Sinking
Fund:*

Consolidated 6 per cent. 1890 Loan.....	\$10,400 00
Five Million 6 per cent. 1890 Loan.....	4,700 00
City Hall 6 per cent. 1900 Loan.....	2,400 00
Amount carried forward..	\$17,500 00

STATEMENT No. 3—Continued.

Amount brought forward.	\$17,500 00	
City Hall 6 per cent. 1902		
Loan.....	2,700 00	
Funding 6 per cent. 1900		
Loan.....	2,000 00	
Western Maryland Rail- road 6 per cent. 1902		
Loan.....	1,900 00	
Jones' Falls 6 per cent. 1900 Loan.....	100 00	
		\$24,200 00
Western Maryland Rail- road 4 per cent. 1925		
Loan.....		21,800 00
Cash.....		15 90
		\$46,015 90
<i>Western Maryland Rail- road 1927 Loan Sinking Fund:</i>		
City Hall 6 per cent. 1902		
Loan.....		\$ 300 00
Western Maryland Rail- road 6 per cent. Third Mortgage Guaranteed Bond		1,000 00
Western Maryland Rail- road 3½ per cent. 1927 Loan, issued by virtue of Ordinance 11, 1886, as a basis for Sinking Fund..		100,000 00
Cash.....		17 00
		\$101,317 00

STATEMENT No. 3—Concluded.

RECAPITULATION:

General Sinking Fund.....	\$5,251,696 77
Public Park Sinking Fund.....	605,942 67
Hillen Station Sinking Fund....	28,141 41
Western Maryland Railroad Terminal Company Sinking Fund.....	6,127 64
Western Maryland Railroad 1925 Loan Sinking Fund.	46,015 90
Western Maryland Railroad 1927 Loan Sinking Fund.....	101,317 00
	\$6,039,241 39

STATEMENT No. 4.

Condition of Enoch Pratt Free Library Sinking Fund, held in trust by the Commissioners of Finance, as per Ordinance No. 64, of 1883, on December 31, 1887.

Consolidated 6 per cent. 1890	
Loan.....	\$65,900 00
Five Million 6 per cent. 1890	
Loan.....	11,400 00
Funding 6 per cent. 1900 Loan.	5,400 00
City Hall 6 per cent. 1900	
Loan.....	12,600 00
City Hall 6 per cent. 1902	
Loan.....	1,600 00
Western Maryland Railroad	
6 per cent. 1902 Loan.....	6,500 00
Consolidated 6 per cent. 1893	
Loan.....	5,400 00
Park Improvement 6 per cent.	
1895 Loan.....	700 00
Jones' Falls 6 per cent. 1900	
Loan.....	1,200 00
	\$110,700 00
Western Maryland Railroad 6	
per cent. Third Mortgage	
Guaranteed Bonds.....	10,000 00
Water 5 per cent. 1916 Loan..	\$16,500 00
Funding 5 per cent. 1916 Loan.	300 00
Jones' Falls 5 per cent. 1900	
Loan.....	78,500 00
	95,300 00
Amount carried forward...	\$216,000 00

STATEMENT No. 4—Concluded.

Amount brought forward.	\$216,000 00
Paving 4 per cent. 1920 Loan..	\$62,300 00
Patterson Park 4 per cent. 1920	
Loan.....	195,000 00
Water 4 per cent. 1922 Loan..	500,000 00
	757,300 00
	\$973,300 00
Less amount over-invested....	336 16
	\$972,963 84

The amount paid the city by Enoch Pratt, Esq., for the \$50,000 annuity to the Enoch Pratt Free Library, as required by Article 38A, Section 8, Supplement to the Baltimore City Code of 1885, was as follows:

Cash.....	\$833,333 33
Main building on Mulberry street, cost.....	250,000 00
Branch building on corner Fremont and Pitcher streets, No. 1, cost.....	12,500 00
Branch building on corner Hollins and Calhoun streets, No. 2, cost.....	12,500 00
Branch building on corner Light and Gittings streets, No. 3, cost.....	12,500 00
Branch building on corner O'Donnell and Canton streets, No. 4, cost.....	12,500 00
	\$1,133,333 33
And all the books, costing to this date.....	85,000 00
	\$1,218,333 33

August Pfeil.....	No. 25 Weyler street.....	29 60
F. Schott.....	No. 29 “.....	26 32
August Pfeil.....	Southwest corner Light and Weyler streets..	78 06
George Hickman.....	Southwest corner Fayette and Arch streets..	52 00
Wilson & Hunting.....	Nos. 5, 6, 7 and 8, west side President street.	502 50
John G. Huck.....	Lot on Light street.....	75 70
Platt & Co.....	Fish House property, south side of basin...	1,457 00
Baltimore and Philadelphia Steamboat Company.....	200 feet of wharf on Pratt street.....	3,600 00
		\$7,746 76

Ground rents purchased by authority of Ordinance No. 81, of 1881.

Comm'ers Public Schools...	Hollins and Monroe streets.....	\$ 750 00
“ “	Howard and Little Montgomery sts.	120 00
“ “	Pennsylvania avenue and Roberts street.....	86 00
“ “	Park avenue, near Preston street..	549 00
“ “	Waesche street, near Fremont st.	480 00
“ “	Castle street.....	209 25
“ “	Hanover and Lee streets.....	210 00
“ “	Sharp and West streets.....	570 00
“ “	Argyle avenue, near Lanvale street.	120 00
Amounts carried forward....		\$3,094 25
		\$7,746 76

STATEMENT No. 5—Concluded.

LESSEES.	LOCATION OF LOTS.	ANNUAL RENTAL.
Comm'ers Public Schools...	Amounts brought forward....	\$ 7,746 76
" "	Hull and Clement streets.....	350 00
" "	Linden avenue and Wilson street..	840 00
" "	Charles and Ostend streets.....	372 50
" "	Ann and Chase streets.....	501 75
" "	Howard st., opposite Centre st....	1,000 00
" "	Preston and Eden streets.....	80 00
" "	Broadway and Bank street..	200 00
Mayor and City Council....	Monument and Chester streets....	1,200 00
" "	Collington Square.....	960 00
" "	Perkins' Spring Square.....	2,052 00
" "	Riverside Park.....	3,770 62
" "	Holliday and Fayette streets.....	56 00
" "	Lexington and Paca streets.....	228 00
Purchased at a cost of \$255,777.28		14,705 12
		\$22,451 88

STATEMENT No. 6.

Statement of the Funded Debt December 31, 1887.

LOAN.	RATE.	WHEN REDEEMABLE.	AMOUNT.
Consolidated.....	6 per cent.	At pleasure after July 1, 1890....	\$7,306,546 22
Public Park.....	6 "	" " " Sept. 1, 1890....	555,566 25
Exempt.....	6 "	" " " Sept. 1, 1893....	410,353 87
Water.....	6 "	" " " July 1, 1894....	263,000 00
"	5 "	" " " July 1, 1894....	3,737,000 00
"	5 "	" " " July 1, 1916....	5,000,000 00
"	4 "	" " " Nov. 1, 1922....	500,000 00
Funding.....	6 "	" " " July 1, 1900....	800,000 00
"	5 "	" " " July 1, 1916....	1,000,000 00
Harford Run Improvement.	4 "	" " " Jan. 1, 1920....	250,000 00
Paving.....	4 "	" " " Nov. 1, 1920....	500,000 00
Five Million.....	6 "	January 1, 1890.....	5,000,000 00
Consolidated.....	6 "	September 1, 1893.....	2,211,068 05
Park Improvement.....	6 "	January 1, 1895.....	185,723 80
Jones' Falls.....	6 "	April 9, 1900	800,000 00
"	5 "	" 9, 1900	957,000 00
"	3.65 per ct.	" 9, 1900	455,000 00
"	3 per cent.	" 9, 1900	100,000 00

City Hall.....	6 per cent.	April 15, 1900.....	1,000,000 00
"	6 "	March 7, 1902.....	500,000 00
W. Md. R. R.....	6 "	January 1, 1902.....	1,000,000 00
Harford Run Sewer.....	4 "	November 3, 1904.....	246,700 00
Patterson Park.....	4 "	October 1, 1920.....	200,000 00
W. Md. R. R.....	4 "	July 1, 1925.....	684,000 00
W. Md. R. R.....	3 $\frac{1}{4}$ "	January 1, 1927.....	1,704,000 00
Overdue Stock.....	6 "	No interest allowed.....	732 00
Water, 1875.....	6 "	"	1,840 00
Consolidated, 1885.....	5 "	"	2,725 46
One Million, 1886.....	6 "	"	2,330 50
Valley R. R., 1886.....	6 "	"	300 00
W. Md. R. R. Bonds.....	6 "	"	3,290 00
Total funded debt.....			\$35,377,176 15
GUARANTEED DEBT:			
Endorsement of W. Md. R. R. 3d Mortgage Bonds.....		\$875,000 00	
" of Union R. R. 1st Mortgage Bonds.....		117,000 00	
			992,000 00
Total funded and guaranteed debt.....			\$36,369,176 15

STATEMENT No. 7.

*Balance Sheet of Sinking Funds' Ledger, December
31, 1887.*

	DR.	CR.
General Sinking Fund.....		\$190,640 09
Public Park Sinking Fund....		742 67
Hillen Station Sinking Fund..		341 41
Western Maryland Railroad Terminal Company Sinking Fund.....		227 64
Western Maryland Railroad 1925 Loan Sinking Fund....		15 90
Western Maryland Railroad 1927 Loan Sinking Fund....		17 00
Enoch Pratt Free Library Sinking Fund.....	\$ 336 16	
Redemption of Western Mary- land Railroad Bonds.....		3,290 00
Balance.....	194,938 55	
	\$195,274 71	\$195,274 71

STATEMENT No. 8.

Statement of the indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore, December 31, 1887.

First Mortgage Bonds, held by the Commissioners of Finance	\$ 43,500 00
Second Preferred Mortgage Bonds, held by the Com- missioners of Finance...	178,500 00
Accrued interest to January 1, 1887, on the Second Mortgage endorsement...	333,000 00
Third Mortgage endorse- ment	\$ 875,000 00
Interest thereon to Decem- ber 31, 1887	892,500 00
	1,767,500 00
Fourth Mortgage, to secure loan of City Stock.....	\$1,000,000 00
Interest thereon to Decem- ber 31, 1887	930,000 00
	1,930,000 00
Loan of City Stock, author- ized by Ordinance No. 71, of 1881	684,000 00
Loan of City Stock, author- ized by Ordinance No. 11, of 1886	1,704,000 00
Amount carried forward.	\$6,640,500 00

STATEMENT No. 8—Concluded.

Amount brought forward.		\$6,640,500 00
Funding Certificates, being amount of matured cou- pons of First and Second Preferred Mortgage Bonds, funded as per Ordinance No. 22, of 1879.	\$226,530 00	
Interest thereon from July 1, 1887 to date.....	6,795 90	
		233,325 90
Coupons from First Mort- gage Unendorsed Bonds.	\$71,742 00	
Interest thereon to Decem- ber 31, 1887.....	52,293 61	
		124,035 61
		\$6,997,861 51
Less value of Western Mary- land Railroad 1927 Loan Sinking Fund.....		101,317 00
		\$6,896,544 51

STATEMENT No. 9.

Total Liabilities of the Western Maryland Railroad Company, December 31, 1887.

*Held by the City in the
Sinking Fund:*

Second Preferred Mortgage

Bonds.....	\$ 178,500 00
First Mortgage Bonds.....	43,500 00
First Mortgage Coupons (not funded).....	71,742 00
Interest on said coupons to date.....	52,293 61
Funding Certificates.....	226,530 00
Six months' interest on said certificates.....	6,795 90

\$579,361 51

Less value of Western Mary-
land Railroad 1927 Loan
Sinking Fund.....

101,317 00

\$ 478,044 51

Accrued interest to January
1, 1887, on Second Mort-
gage bonds.....

333,000 00

Third Mortgage, endorse-
ment by city.....

\$875,000 00

Accrued interest to Decem-
ber 31, 1887.....

892,500 00

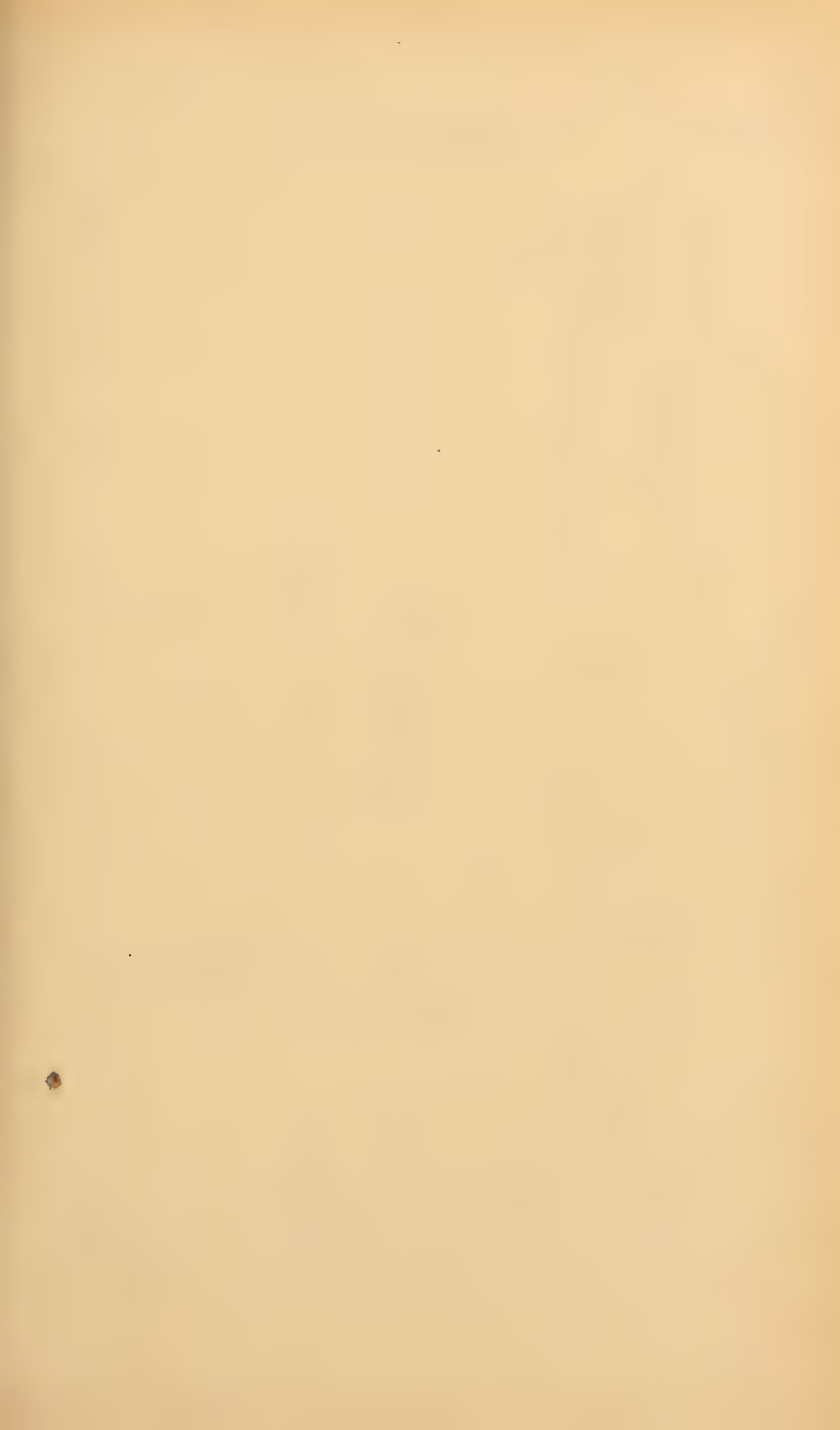
1,767,500 00

Amount carried forward.

\$2,578,544 51

STATEMENT No. 9—Concluded.

Amount brought forward.	\$2,578,544 51
Fourth Mortgage, city stock loaned.....	\$1,000,000 00
Accrued interest to Decem- ber 31, 1887.....	930,000 00
	<u>1,930,000 00</u>
Loan of city stock author- ized by Ordinance No. 71, of 1882.....	684,000 00
Loan of city stock author- ized by Ordinance No. 11, of 1886.....	1,704,000 00
Common stock owned by city.....	\$200,000 00
Common stock owned by Washington county.....	150,000 00
Common stock owned by individuals	334,250 00
	<u>684,250 00</u>
First Preferred Stock owned by Washington county...	324,000 00
	<u>\$7,904,794 51</u>



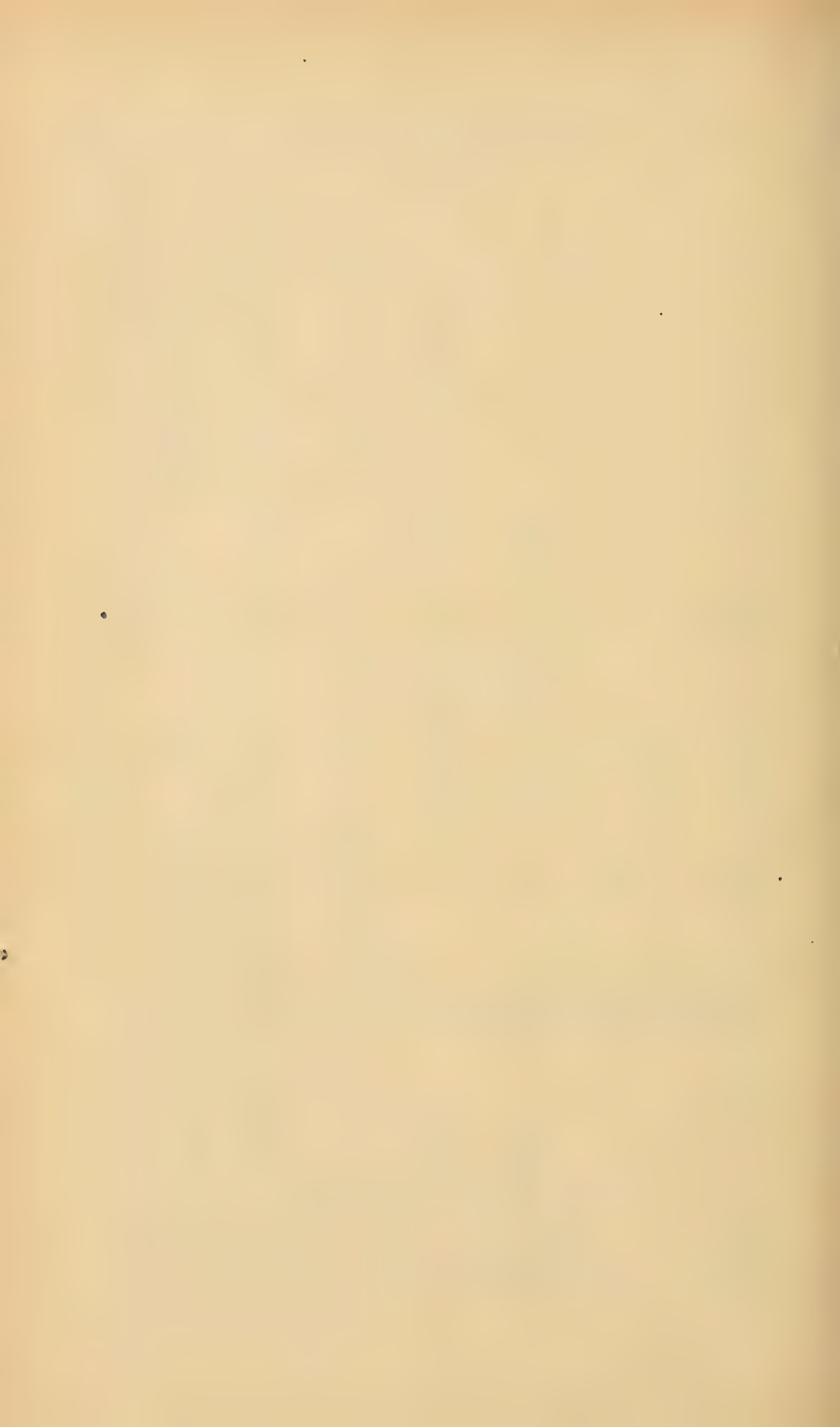
STOCK DEBT.

NAME OF ISSUE.	RATE PER ANNUM.	WHEN PAYABLE.	WHERE PAYABLE.
Five Million Loan	1890	6 per cent.	
Consolidated	" 1890	6 "	
City Hall	" 1900	6 "	
" "	" 1902	6 "	
Funding	" 1900	6 "	
West. Md. R. R.	" 1927	3.25 "	
Patters'n Pk. Ex.	" 1920	4 "	
Park Imp.	" 1895	6 "	
Public Park	" 1890	6 "	
Jones' Falls	" 1900	6 "	
" "	" 1900	5 "	
" "	" 1900	3.65 "	
" "	" 1900	3 "	
West. Md. R. R.	" 1902	6 "	
" "	" 1925	4 "	
Harf'd Run Imp.	" 1920	4 "	
Completion of Harford Run			
Improvement Loan	1904	4 "	

Paving	Loan	1920	4 per cent.	May and November . . .	National Mechanics' B'k.
Water	"	1916	5	"	"
"	"	1894	6	"	"
"	"	1894	5	"	"
"	"	1922	4	"	"
"	"	1926	4	"	"
Funding	"	1916	5	"	"
Exempt	"	1893	6	March and September..	"
Consolidated	"	1893	6	"	"

GUARANTEES.

NAME OF ISSUE.	RATE PER ANNUM.	WHEN PAYABLE.	WHERE PAYABLE.
Western Maryland R. R. Company's Bonds	6 per cent.	January and July	National Mechanics' B'k.
Union Railroad Company's Bonds	6	"	Franklin Bank



ANNUAL REPORT
OF THE
CITY COMPTROLLER

TO THE
Mayor and City Council of Baltimore,

FOR THE
FISCAL YEAR ENDING DECEMBER 31, 1887.

REPORT.

DEPARTMENT OF THE CITY COMPTROLLER,

BALTIMORE, January 1, 1888.

To the Honorable the Mayor and

City Council of Baltimore.

GENTLEMEN :

In accordance with the requirements of law, I have the honor of presenting herewith the report of this Department for the fiscal year ending December 31, 1887.

The following table exhibits the receipts and disbursements of the city government from the 1st day of January, 1887, to the 31st day of December, 1887, both days inclusive :

STATEMENT OF RECEIPTS.

From the City Collector, on	
account of the tax	
levy for 1887.....	\$3,131,741 17
“ the City Collector, on	
account of taxes in	
arrears	1,059,676 49
Amount carried forward.	\$4,191,417 66

Amount brought forw'd.	\$4,191,417	66
From the City Collector, on account of interest on taxes in arrears.	18,694	50
“ the City Collector, on account of open- ing, closing and paving streets and alleys	197,428	33
“ the City Collector, on account of re-num- bering houses	10,975	51
		\$4,418,516 00
“ market rents and licenses	56,988	44
“ rent of public halls	1,299	00
“ wharfage by Harbor Masters	33,560	96
“ Park Board, for Druid Hill and Patterson Parks	119,325	07
“ Federal Hill Park	325	00
“ Trustees of Bayview Asylum, for board of inmates, &c	3,965	46
“ sundry parties, difference in board of insane patients	2,775	00
“ temporary loans	1,510,000	00
“ the Pound Master, for sale of dogs	406	66
“ Quarantine Hospital fees	4,901	74
“ Water Board, for rents, &c	745,445	96
“ the Jail Visitors, for board of U. S. prisoners, &c	2,197	34
Amount carried forward	\$6,899,706	63

Amount brought forward.....	\$6,899,706 63
From County Commissioners of Howard County, for cases removed and tried in city courts.....	114 31
“ Magistrates, for fines for violation of city ordinances.....	3,041 15
“ ground rents due by sundry parties	175 00
“ auctioneers, for State tax on sales.	7,431 16
“ sundry parties, for injury to street lamps.....	131 80
“ the inspection of gas meters.....	3,773 25
“ licenses for wagons, carts, billiards, dogs, &c.....	44,609 30
“ City seals.....	10 00
“ the railway companies, for park sinking fund.....	18,168 65
“ the City Librarian, for sale of codes and ordinances.....	20 00
“ the Fire Commissioners, for sale of refuse, &c.....	236 48
“ tax sales, for the redemption of property previously sold for taxes.....	1,930 68
“ the City Commissioner, for account of advertising.....	306 00
“ the Commissioner of Street Clean- ing, for sale of refuse.....	1,563 05
“ the State of Maryland, for the city’s proportion of public school tax.	147,402 62
Amount carried forward.....	\$7,128,620 08

Amount brought forward.....	\$7,128,620 08
From the Secretary of the School Board,	
for the use of books, &c.....	6,636 46
“ J. F. Plummer, interest on legacy to public schools.....	129 48
“ Superintendent City Hall, for sale of old material.....	24 60
“ State tax on city loans.....	24,616 92
“ Baltimore and Ohio Railroad Com- pany, interest on the \$5,000,000 loan.....	300,000 00
“ Water Board, interest on water loans of 1894, 1916 and 1922...	472,630 00
“ Park Board, interest on the public park loans.....	41,333 96
“ Commissioners of Finance, divi- dend on Baltimore and Ohio Railroad stock.....	130,000 00
“ the Western Maryland Railroad, interest on 1925 loans.....	82,740 00
“ permits and advertising, for erect- ing sheds, boilers, &c.....	5,788 90
“ the City Commissioner, for vaults and areas.....	627 00
“ the City Commissioner, for im- provement Jones' Falls.....	448 12
“ the City Commissioner, for repairs paved streets.....	1,200 58
“ the City Commissioner, for repairs of sewers.....	2,302 68
Amount carried forward.....	\$8,197,098 78

Amount brought forward	\$8,197,098 78
From the City Commissioner, for im- provement Harford run	7 00
“ the City Commissioner, for sewer in Low street	42 51
“ the City Commissioner, for North Avenue sewer	8 67
“ the City Commissioner, for repav- ing Centre market	60 00
“ the sale of Jones' Falls $3\frac{65}{100}$ per cent. stock	140,051 50
“ the sale of improvement Harford Run stock	97,575 00
“ the Water Board, for account wa- ter loan 1922	245 00
“ intestate estates	73 30
“ conscience fund	150 00
“ turnpike dividends and interest	158 00
“ the City Commissioner, for shell- ing Washington road	3 50
“ unclaimed damages, for opening streets	716 50
“ the sale of property owned by the city	492 50
“ the Harbor Board, account of dred- ging, &c	40 00
“ the sale of tickets on account of transportation of poor	8 00
Amount carried forward	\$8,436,730 26

Amount brought forward	\$8,436,730 26
From damages and incidental expenses for opening, closing and paving streets, alleys, &c	9,708 74
Cash in hands of the City Register Jan- uary 1, 1887	257,615 68
	\$8,704,054 68

STATEMENT OF DISBURSEMENTS.

For cleaning and repairs of markets	\$4,913 23
“ cleaning and repairs of Hollins, Cross Street and Broadway Halls.	143 45
“ Criminal Court	66,126 73
“ Baltimore City Court	13,138 45
“ Superior Court	13,130 30
“ Court Common Pleas	13,055 27
“ Circuit Court	2,877 65
“ Orphans’ Court	7,903 10
“ Supreme Bench	2,575 00
“ Salaries of magistrates and substi- tutes	15,312 00
“ Judgments and suits	8,527 16
“ The Police Department	702,881 56
“ Salaries and incidentals of the City Council	52,925 12
“ Expenses of the Supervisors of Elec- tions	684 51
“ removed cases	2,921 34
Amount carried forward	\$907,114 87

Amount brought forward.....	\$907,114 87
For registration.....	12,538 57
“ expenses of the Jail	60,999 65
“ Park sinking fund.....	18,168 65
“ public schools (general).....	127,126 01
“ public schools (salaries)	603,369 30
“ Manual Training School.....	10,996 18
“ interest on loans, &c., and discount on taxes.....	131,698 05
“ Water Board.....	813,505 15
“ the dog pound.....	1,199 90
“ ground rents due by the city.....	4,293 84
“ special appropriations	4,884 80
“ State tax on city loans	38,034 63
“ Druid Hill and Patterson Parks....	124,987 57
“ Riverside Park.....	7,767 27
“ Federal Hill Park.....	5,789 63
“ Johnston Square.....	2,851 43
“ Collington “	999 13
“ Harlem “	4,000 00
“ Eutaw “ 1st division.....	1,800 00
“ Eutaw “ 2d division.....	1,798 92
“ Madison “	2,494 02
“ Lafayette “	1,327 65
“ Perkins Spring Square.....	3,252 00
“ Hot-house at Perkins Spring Square	600 00
“ carrying poor to homes.....	843 54
“ Bayview Asylum.....	79,995 82
“ Health Department (general).....	12,988 26
Amount carried forward.....	\$2,985,424 84

Amount brought forward.....	\$2,985,424 84
For Quarantine Hospital.....	17,973 33
“ Health (salaries).....	31,987 83
“ nuisances.....	11,776 82
“ cleaning streets.....	263,933 67
“ Harbor Board	44,921 50
“ ice-boat F. C. Latrobe.....	11,992 03
“ repairs of wharves.....	713 23
“ repairs of city dock.....	4,045 14
“ bulkhead at Little Hawkins’ Point.	5,998 52
“ resurvey of harbor, &c.....	3,687 26
“ City Collector (expenses of office)....	51,093 83
“ Appeal Tax Court.....	257 80
“ gas and electric lights.....	194,921 07
“ lamplighters, salaries.....	46,514 00
“ lamp-pillars and lamps.....	25,982 38
“ Inspector of Buildings.....	6,174 58
“ repairs of public schools.....	9,994 38
“ repairs city property.....	18,490 31
“ permits for sheds, boilers, &c.....	1,132 52
“ new truck house, N. E. Baltimore..	3,983 30
“ repairs Baltimore Light Infantry Armory	2,497 94
“ wood ceilings for school houses.....	3,000 00
“ engine house in West Baltimore....	579 05
“ building Colored High and Gram- mar School.....	186 38
“ shed at Northeast market.....	8,995 75
“ building Primary School No. 8.....	9,000 00
Amount carried forward.....	\$3,765,257 46

Amount brought forward.....	\$3,765,257	46
For building addition to Grammar		
School No. 21	3,931	87
“ repairs of No. 7 engine house.....	500	00
“ for repairs of Fifth Regiment Ar-		
mory.....	990	98
“ building laundry at City Jail.....	4,500	00
“ repairs to Criminal Court.....	3,197	35
“ refurnishing Orphans' Court.....	700	00
“ paving Fish Market at Hanover Mar-		
ket	2,525	00
“ salaries of the City Commissioner's		
Department	9,544	25
“ improvement Jones' Falls.....	145,973	03
“ repairs paved streets	74,911	25
“ repairs bridges.....	7,857	25
“ repairs sewers.....	13,055	62
“ Light street bridge.....	2,013	77
“ iron plates.....	2,714	00
“ flag and stepping stones	7,709	92
“ cross streets.....	7,876	07
“ improvement Harford Run.....	137,674	40
“ repairs unpaved streets.....	1,497	69
“ dredging Jones' Falls.....	153	38
“ Lanvale street sewer.....	13,449	34
“ Low street sewer.....	1,499	18
“ re-paving Centre market.....	6,110	85
“ paving streets in Bolton property...	155	60
“ Necessity alley, sewer.....	15	63
Amount carried forward.....	\$4,213,813	89

Amount brought forward.....	\$4,213,813 89
For Mosher street, sewer.....	6,452 77
“ North avenue, sewer.....	4,984 21
“ paving fish market, at Lexington market.....	1,924 50
“ new turn-table at drawbridge.....	974 85
“ repairing gutters, at Charles and Eager streets.....	1,790 99
“ altering Centre market.....	2,039 37
“ assistance to Examiner of Titles....	583 00
“ expenses of the Mayor’s office.....	1,832 95
“ City Librarian.....	7,676 57
“ refunded taxes.....	3,518 36
“ public printing.....	812 45
“ expenses of the Court house and Re- cord office.....	5,901 81
“ expenses of the City and Circuit Court building.....	3,283 20
“ general expense.....	1,188 84
“ Superintendent of City Hall.....	18,685 04
“ extension of Patterson Park.....	16 10
“ general license.....	1,331 99
“ expenses of the Fire Department...	201,604 22
“ fire-alarm boxes at various places...	3,621 98
“ Hook and Ladder Co. No. 5.....	7,649 91
“ keyless doors on fire-alarm boxes...	1,350 00
“ purchase of lot for engine house in west Baltimore.....	3,000 00
“ dredging the channel of the Spring Gardens....	5,000 00
Amount carried forward.....	\$4,499,037 00

Amount brought forward	\$4,499,036 99
For fines, remitted by order of the Mayor	888 00
“ Mount Vernon Squares	1,500 00
“ Frick’s Triangle	1,000 00
“ Park Place Squares	699 93
“ Broadway Squares, first division	1,992 60
“ “ “ second division	1,948 59
“ Franklin Square	1,650 00
“ Jackson Square	899 51
“ Eastern Fountain	1,275 32
“ Ashland Square	131 00
“ Union Square	2,189 08
“ Baker Circle	300 00
“ Mount Royal Avenue Squares	2,500 00
“ Taney Place Squares	297 80
“ House of Reformation	10,000 00
“ House of Refuge	14,583 40
“ repairs of House of Refuge	5,300 00
“ Baltimore University	2,444 92
“ Maryland General Hospital	2,530 75
“ Dispensaries	8,600 00
“ St. Mary’s Industrial School	20,000 00
“ Mount Hope Retreat	26,000 00
“ Maryland Hospital for the Insane	13,000 00
“ deaf and dumb	498 67
“ widows and orphans, war of 1812	100 00
“ Maryland University	6,750 00
“ Washington University	6,750 00
“ Female House of Refuge	3,000 00
Amount carried forward	\$4,635,866 57

Amount brought forward.....	\$4,635,866 57
For St. Vincent's Infant Asylum.....	4,999 93
“ Home of the Friendless.....	2,100 00
“ Nursury and Child's Hospital.....	2,249 98
“ St. Elizabeth's Colored Orphan Asy- lum.....	999 96
“ temporary loans.....	1,310,000 00
“ Coroners.....	2,400 00
“ Commissioners for Opening Streets..	123 01
“ salaries of city officers.....	72,624 35
“ General Superintendent Lamps.....	300 00
“ cleaning cess-pools.....	1,494 00
“ paving around city property.....	997 01
“ tax sales.....	957 41
“ State and city elections.....	10,662 77
“ transportation to House Correction..	225 90
“ Maryland Institute.....	6,000 00
“ Insurance of Bayview Asylum.....	1,305 00
“ ringing Mechanics' bells.....	200 00
“ winding Maryland Institute clock...	75 00
“ new fire-plugs, fountains, &c.....	4,000 00
“ Enoch Pratt Free Library.....	50,000 00
“ suspense account.....	1,627 50
“ ice-boat Maryland.....	10,000 00
“ commissions and incidentals of the Harbor Masters.....	8,408 95
“ water loan 1922.....	851 00
“ post mortems.....	833 32
“ paving loan 1920.....	6,256 33
Amount carried forward.....	\$6,135,557 98

Amount brought forward.....	\$6,135,557 98
For interest on stock debt.....	1,812,691 14
“ Boys’ Home Society.....	3,000 00
“ St. Mary’s Female Orphan Asylum..	2,291 67
“ sale of city property	376 24
“ Atlas City of Baltimore, Inspector of Buildings	25 00
“ Atlas City of Baltimore, City Com- missioner.....	25 00
“ re-numbering houses	17,787 00
“ unclaimed damages.....	749 21
“ purchase of hose for sundry markets	511 10
“ shelling Bayard street.....	467 15
“ “ Ridgely street.....	414 35
“ “ Warner and Dock streets..	387 10
“ “ Washington road.....	796 65
“ Observatory at Federal Hill Park..	2,997 10
“ shelling Eastern avenue.....	700 00
“ “ Monument and Fayette Sts.	600 00
“ water closet at No. 1 Truck house..	350 00
“ draining well of No. 3 Engine house	700 00
“ new truck house, South Baltimore..	8,592 81
“ clerk’s office, Hollins Market.....	643 40
“ “ “ Hanover Market.....	796 00
“ inlets to Howard street sewer.....	684 41
“ repairing floor of Calvert street bridge	536 00
“ repairing floor of St. Paul street bridge	946 25
Amount carried forward.....	\$7,992,625 56

Amount brought forward.....	\$7,992,625 56
For changing curb at Eutaw Place.....	511 75
“ traps to Eager street sewer.....	78 31
“ shelling Liberty road.....	40 51
“ “ Franklin street.....	99 41
“ iron plates at Pratt and Monroe Sts.	690 24
“ pavement, Baltimore street, side of Patterson Park.....	1,392 89
“ rail on Ridgely street.....	149 35
“ paving footway at Johnston Square.	2,158 50
“ iron plates at Howard and Barre Sts.	709 22
“ culvert at Eager and Calvert streets	1,199 23
“ lot for Colored High and Grammar School.....	14,000 00
“ shelling Point lane.....	249 70
“ improvement of Fulton avenue.....	2,772 25
“ music at public parks.....	3,000 00
“ purchase of Eave Stall, No. 7, Hol- lins Market.....	200 00
“ refurnishing Baltimore City Court..	251 42
“ “ Criminal Court.....	349 36
“ macadamizing Falls road.....	999 95
“ engine for Light street bridge.....	287 50
“ purchase of lot for Primary School No. 8.....	1,200 00
“ draining wells of No. 1 Engine house and No. 1 Grammar School.....	750 00
“ damages and incidentals in connec- tion with opening & closing streets	317,649 45
Amount carried forward.....	\$8,341,364 61

Amount brought forward.....	\$8,341,364	61
For paving streets and alleys	62,565	19
Balance in hands of City Register Decem-		
ber 31, 1887	300,124	88
	\$8,704,054	68

CITY PROPERTY.

In my report to the Mayor and City Council in January, 1886, in noticing the sale of stalls in the recently erected Canton market, the statement was made that twelve butcher, seventeen permanent and fourteen eave stalls had remained unpurchased, which involved the necessity of again offering these stalls for sale. I did not feel justified, however, in any attempt to complete the sale indicated, until sufficient assurance was given that the amount derived therefrom would more than cover the expenses of selling. In accordance with such assurance, on the 14th of April, 1887, I offered for sale all the stalls in the Canton market then belonging to the Mayor and City Council, and realized therefrom \$310.00 for two butcher, three permanent and five eave stalls. There still remain unsold ten butcher, fourteen permanent and nine eave stalls. The revenue proper derived by the city from this market during the past year is exceeded by the expenses in the sum of \$39.00, without estimating the interest on the sum (\$8,613.15) paid by the city for building the market house. More importance is given this matter than its magnitude seems to justify, but it is done for the purpose of impressing upon those who are authorized to make improvements, the propriety of investigating closely, before committing the city to enterprises, the necessity for which may be created by private, not public interest.

By virtue of authority vested in me by Article 49, of Baltimore City Code, title "Taxes," I offered for sale at public auction, November 4, 1887, four pieces of property which the city became possessed of through tax sales. The amount realized therefrom was \$320.00, covering only one of the four pieces offered.

In pursuance of an Ordinance, No. 100, of the Mayor and City Council of Baltimore, of 1887, the Mayor and Comptroller offered at public auction, for lease, the property known as Calvert Street Spring lot, and succeeded in leasing said lot at \$1,000.00 per annum, the interest on \$16,666.66 at 6 per cent. It may be proper to state, in order to dispel any doubts existing as to the right of the city to lease the property above indicated, that action in the matter was not taken until a thorough investigation of the original purchase thereof, and the proper legal opinion in that connection.

By a resolution of the Mayor and City Council of Baltimore, approved April 7, 1884, and by a subsequent explanatory resolution approved July 2, 1884, the Mayor was authorized and directed to purchase the property adjoining No. 6 Engine House for the enlargement and improvement of the premises of said Engine Company, and the sum of \$6,500, or so much thereof as might be necessary, was appropriated for the same. The property to be purchased under this resolution was subject to an incumbrance of \$6,000, redeemable in five years, from March 30, 1883, and it was understood (see Resolution No. 224, of Mayor and City Council of Baltimore, of 1884,) that the appropriation to be paid under this resolution for said property was over and above said incumbrance and subject thereto. The purchase, directed as above, was made on the 8th

day of July, 1884, by the payment to Jackson N. Foster and Alice D. Foster, his wife, and John H. D. Boone and Catherine Boone, his wife, of the sum of \$6,000.00, subject, however, to the legal effect and operation of a mortgage of said lot of ground and premises from the parties deeding, to "The Corporation for the Relief of the Widows and Children of the Clergy of the Protestant Episcopal Church in Maryland," bearing date the 30th of March, 1883. As this mortgage is redeemable on the 30th day of March, 1888, I respectfully recommend for its redemption the appropriation of \$6,180.00, the additional \$180.00 being to cover six months' interest accruing upon the date above mentioned.

By Ordinance No. 89, approved May 26, 1887, the price of license for wholesale dealers in Centre market was fixed at \$100.00 per year, but as there is no penalty attached to the failure to take out such license, the market-master complains of the difficulty he experiences in collecting the amount specified by the law. I would therefore recommend such amendment to the ordinance referred to, as would meet the requirements of the case.

Section 31, Article 35, Baltimore City Code of 1879, prohibits the sale of merchandise or clothing of any description whatever in any of the markets of the city, under penalty of not less than five, nor more than ten dollars. This prohibition was very proper, as it was never intended that the markets should interfere with shop-keepers who are obliged to take out State license, besides being subject to personal city taxes, and to rent for the premises they occupy. Section 32 of same article, however, makes an exception in the case of any

poor female whose stock is not greater than \$40.00, provided she pays five dollars a year license (*one license covering all the markets*), and is the vender of her own goods, except where temporary disability compels her to employ a substitute. This law was originally intended to benefit a class to whom the privilege of selling in the city markets such goods as are indicated, was almost a charity, but it was certainly one of doubtful expediency, and has been so abused that those sought to be benefited thereby have been almost entirely driven from the markets by persons whose whole study appears to be to evade the stipulations of the law which licenses them to sell.

That clause of the last article quoted where the physical disability of the female vender entitles her to employ a substitute, judging from medical evidence furnished, seems to have had a most insalutory effect upon the health of female venders, and to have developed an extraordinary degree of physical ability on the part of their male substitutes. A privilege, the evasion of whose requirements is the exception, not the rule, should be withdrawn, and I therefore recommend to your Honorable Body the entire repeal of the section granting it; it has been a source of much complaint, and will continue to be, to a still greater degree.

For the sake of general information, I would state that the cost in the registration cases during the last year was for court costs, \$5,278.00, and for witness certificates \$1,666.50; as many of the latter have not yet been presented, the entire costs are not yet known.

A comparison of the receipts for the licenses in the Comptroller's office with those of the preceeding year, shows a falling off of \$421.50. Had the receipts for

billiards, bagatelle and theatricals been as the previous year, there would have been a considerable increase in our revenue. I am of the opinion that with the assistance of the police, especially so far as licenses for entertainments are concerned, the revenue of the Comptroller's office would be considerably increased. It was formerly the custom for the police officers when entertainments of any kind, to which admission fee was charged, were held on their beats, to require the giver of such to show a license from the Comptroller's Department, but owing to a doubt on the minds of the police authorities as to their right in this matter, the custom ceased some time back, and the revenue for licenses of the kind indicated has materially decreased.

FINANCIAL STATEMENT IN DETAIL.

For information in detail connected financially with the operations of the Department of the City Comptroller, I respectfully invite your attention to the subjoined tables :

Table A is a statement of the amount charged and credited to the City Register.

Table B shows the amount of taxes collected during the year, and the amount charged to the City Collector for taxes in arrears.

Table C is a statement of the receipts and disbursements of Markets, Public Halls, General Licenses, Theatricals, and Wharfage Accounts.

Table D is a statement of the several Courts, Supreme Bench, Magistrates, Judgments and Suits, City Council,

Police Department, Supervisors of Elections, Removed Cases, Registration, and Baltimore City Jail.

Table E is an exhibit of the receipts from taxes and other sources, and payment on account of interest on the Stock Debt, Sinking Fund, Loans, Interest, Water Board, Dog Pound, Public Schools (general and salaries), Manual Training School, City Property, Special Appropriations, Patterson Park Extension, Water Loan 1922, Gas and Electric Lights, and State Tax on City Loans.

Table F is a statement of receipts and disbursements on account of Druid Hill and Patterson Parks and Riverside Park.

Statement A is a statement of the several Public Squares, Health Department, Harbor Board, Commissioner of Street Cleaning, City Collector, City Poor, General Superintendent of Lamps, Lamp-pillars and Lamps, Inspector of Buildings' Department, City Commissioner's Department, Fire Department and General Expenditures under the head of Miscellaneous.

Statement B shows the amounts received and paid for Opening, Closing and Widening Streets and Alleys.

Table G shows the amounts paid for Paving Streets and Alleys, and amounts received from the City Collector on account of Paving Streets.

I have the honor to be,

Very respectfully,

Your obedient servant,

JAMES R. HORNER,

Comptroller of the City.

TABLES.

TABLE A.

DR. JOHN A. ROBB, *City Register*, in account with

1887.

January	1	To balance.....	\$ 257,615 68
January	31	“ cash.....	150,547 23
February	28	“ “	806,237 89
March	31	“ “	793,116 72
April	30	“ “	509,714 49
May	31	“ “	457,417 86
June	30	“ “	1,391,305 03
July	31	“ “	1,113,133 30
August	31	“ “	260,650 80
September	30	“ “	382,623 78
October	31	“ “	597,727 75
November	30	“ “	1,020,023 41
December	31	“ “	963,940 74
			\$8,704,054 68

TABLE A.

the Mayor and City Council of Baltimore. CR.

1887.

January	31	By Comptroller's Warrants.	\$ 538,464 28
February	28	" " "	. 322,330 79
March	31	" " "	. 951,927 85
April	30	" " "	. 596,609 40
May	31	" " "	. 1,293,680 38
June	30	" " "	. 548,200 14
July	31	" " "	. 724,767 93
August	31	" " "	. 490,754 32
Sept.	30	" " "	. 568,469 89
October	31	" " "	. 617,761 42
November	30	" " "	. 1,348,171 09
December	31	" " "	. 402,792 31
December	31	" balance	300,124 88
			\$8,704,054 68



TABLE B.

Collections of Taxes, Opening of Streets, &c., made by the City Collector, for the year ending December 31, 1887.

[illegible]

TABLE B—Concluded.

Amount charged against City Collector, Jan. 1, 1888.

Year.	Levy.	Basis of Taxation.	Amount.
1884	\$1.60	\$ 90,836 00	\$ 1,453 37
1885	1.60	404,548 00	6,472 77
1886	1.70	6,468,709 00	109,968 05
1887	1.60	67,740,555 00	1,083,848 88
		\$74,704,648 00	\$1,201,743 07

TABLE C.

Hanover Market—John H. Mortimer, Clerk.

	DR.	CR.
Butcher stall rents.....		\$1,743 50
Fish stall rents.....		286 50
Permanent stall rents.....		390 00
Eave stall rents.....		194 00
Street stall rents.....		241 00
Vegetable stall rents.....		605 00
Per diem rents.....		1,760 00
Licenses.....		1,125 00
		\$6,345 00

TABLE C—Continued.

Belair Market—Joseph H. Wright, Clerk.

	DR.	CR.
Butcher stall rents.....		\$2,365 00
Fish stall rents....		184 00
Permanent stall rents.....		404 00
Eave stall rents.....		204 00
Street eave stall rents.....		240 00
Gutter stall rents.....		468 00
Movable stall rents.....		214 00
Per diem rents.....	\$2,267 50	
Licenses.....	1,920 00	
		4,187 50
		\$8,266 50

TABLE C—Continued.

Cross Street Market—James Graham, Clerk.

	DR.	CR.
Butcher stall rents.....		\$ 815 25
Fish stall rents.....		190 00
Permanent stall rents.....		406 00
Eave stall rents.....		421 00
Vegetable stall rents.....		295 00
Street eave stall rents.....		200 00
Per diem rents.....		1,817 65
		\$4,144 90

TABLE C—Continued.

Lexington Market—W. H. Pope, Clerk.

	DR.	CR.
Butcher stalls, rent and license..		\$2,750 00
Fish stalls, rent and license.....		350 00
Permanent stalls, rent and license.....		1,980 00
Eave stalls, rent and license.....		1,540 00
Vegetable stalls, rent and license.		600 00
Street eave stalls, rent and license.....		295 00
Street stalls, rent and license...		1,105 00
Movable stalls, rent and license..		294 00
Per diem rents.....		3,651 95
		\$12,565 95

TABLE C—Continued.

Hollins Market—James Biden, Clerk.

	DR.	CR.
Butcher stalls, rent and license..	\$	697 00
Fish stalls, rent and license.....		30 00
Permanent stalls, rent and license.....		200 00
Eave stalls, rent and license....		215 00
Vegetable stalls, rent and license		25 00
Street eave stalls, rent and license.....		715 00
End stalls, rent and license.....		50 00
Space stalls, rent and license....		200 00
Nine months' stalls, rent and license.....		40 00
Per diem rents.....		1,568 65
		\$3,740 65

TABLE C—Continued.

Centre Market—Daniel Murray, Clerk.

	DR.	CR.
Butcher stalls, rent and license..		\$2,110 00
Fish stalls, rent and license.....		359 00
Gutter stalls, rent and license...		288 00
Permanent stalls, rent and license		883 00
Eave stalls, rent and license....		714 00
Street eave stalls, rent and license.....		75 00
Movable stalls, rent and license.		649 00
Wholesale stalls, rent and license		1,020 00
Per diem rents.....		2,234 15
		\$8,332 15

TABLE C—Continued.

Richmond Market—George H. Clifton, Clerk.

	DR.	CR.
Butcher stalls, rent and license..	\$	548 75
Permanent stalls, rent and license		222 00
Fish stalls, rent and license.....		140 00
Eave stalls, rent and license....		156 00
Street eave stalls, rent and license.....		20 00
Aisle stalls, rent and license....		60 00
Movable stalls, rent and license.		80 00
Space stalls, rent and license...		220 00
Space and kerb stalls, rent and license.....		215 00
Per diem rents.....		1,485 61
		\$3,147 36

TABLE C—Continued.

Fells' Point Market—F. Buckheimer, Clerk.

	DR.	CR.
Butcher stall rents.....		\$1,685 00
Fish stall rents.....		52 00
Permanent stall rents.....		392 00
Eave stall rents.....		378 00
Street stall rents.....		26 00
Movable stall rents.....		52 00
Vegetable stall rents.....		826 00
Per diem rents.....		1,720 50
Licenses.....		1,605 00
		\$6,736 50

TABLE C—Continued.

Lafayette Market—Thomas Briddell, Clerk.

	DR.	CR.
Butcher stalls.....		\$ 190 00
Eave stalls.....		387 75
Permanent stalls.....		396 43
Space stalls.....		90 00
Street eave stalls.....		3 75
		\$1,067 93

TABLE C—Continued.

Northeast Market—Michael Kunkel, Clerk.

	DR.	CR.
Butcher stalls.....	\$	300 00
Permanent stalls.....		180 00
Eave stalls.....		126 00
Fish stalls.....		45 50
Vegetable stalls.....		710 50
Movable stalls.....		49 00
Per diem rents.....		378 90
		\$1,789 90

TABLE C—Continued.

Canton Market—Owen Malone, Clerk.

	DR.	CR.
Butcher stalls.....		\$ 72 50
Permanent stalls.....		48 00
Eave stalls.....		32 00
Fish stalls.....		6 40
Per diem rents.....		182 70
Licenses.....		200 00
Sale of stalls.....		310 00
		\$ 851 60

TABLE C—Continued.

Summary of Markets.

	DR.	CR.
Hanover Market.....		\$ 6,345 00
Belair “.....		8,266 50
Cross street “.....		4,144 90
Lexington “.....		12,565 95
Hollins “.....		3,740 65
Centre “.....		8,332 15
Richmond “.....		3,147 36
Fells' Point “.....		6,736 50
Lafayette “.....		1,067 93
Northeast “.....		1,789 90
Canton “.....		541 60
		\$56,678 44

Expenses of cleaning, repairs, &c.

Hanover Market.....	\$	618 41	
Belair “.....		539 48	
Cross street “.....		454 07	
Lexington “.....		597 00	
Hollins “.....		360 50	
Centre “.....		668 26	
Richmond “.....		394 00	
Fells' Point “.....		517 75	
Lafayette “.....		252 52	
Northeast “.....		184 95	
Canton “.....		181 15	
			4,732 08
Net revenue.....			\$51,946 36

TABLE C—Continued.

Public Halls.

	DR.	CR.
<i>Cross Street Hall—</i>		
By amount received for rent....		\$ 447 00
To amount paid for cleaning, &c.	55 40	
<i>Hollins Hall—</i>		
By amount received for rent....		812 00
To amount paid for cleaning, &c.	88 05	
<i>Broadway Hall—</i>		
By amount received for rent....		40 00
To balance, December 31, 1887..	1,155 55	
	\$1,299 00	\$1,299 00

TABLE C—Continued.

Receipts from Licenses.

Wagons, 1 horse.....	\$14,163 50
Wagons, 2 horses.....	7,303 80
Wagons, 4 horses.....	377 85
Carts.....	5,200 10
Drays.....	872 00
Omnibuses and Cars.....	1,687 15
Hacks.....	1,198 40
Package Carts.....	542 85
Lighters.....	275 30
Bacon.....	3,183 35
Puddings.....	348 30
Merchandise.....	235 65
Foreign Fruit.....	610 00
Billiards.....	2,350 00
Bagatelle.....	530 90
Ten-pins.....	50 00
Pawnbrokers.....	800 00
Dogs.....	709 15
Coal Oil.....	1,795 50
Theatricals.....	2,375 50
	\$44,609 30

TABLE C—Continued.

General License.

	DR.	CR.
By appropriation, Ordinance No.		
37, 1887.....		\$1,500 00
To amount paid for painting num-		
bers, advertising, &c.....	1,331 99	
To balance, December 31, 1887..	168 01	
	\$1,500 00	\$1,500 00

TABLE C—Concluded.

Collection of Wharfrage from January 1, 1887, to December 31, 1887.

CITY COMPTROLLER.

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DATE.	1st District.	2d District.	3d District.	4th District.	5th District.	Aggregate.
January	\$ 67 70	\$146 95	\$565 92	\$412 53	\$1,247 35	\$2,440 45
February	25 25	57 09	420 93	384 25	940 35	1,827 87
March	108 05	107 72	271 62	375 80	1,227 25	2,090 44
April	92 55	203 66	400 17	413 19	1,693 71	2,803 28
May	45 75	238 44	385 23	474 07	1,970 55	3,114 04
June	71 35	265 50	490 22	430 13	1,870 71	3,127 91
July	76 00	388 61	498 07	452 27	1,551 61	2,966 56
August	45 15	346 47	590 46	458 74	1,735 03	3,175 85
September	64 25	371 93	641 18	661 25	1,603 93	3,342 54
October	81 35	334 92	666 46	509 66	1,601 67	3,194 06
November	51 95	219 54	563 22	523 79	1,543 25	2,901 75
December	99 60	206 19	450 58	536 98	1,282 86	2,576 21
	\$828 95	\$2,887 02	\$5,944 06	\$5,632 66	\$18,268 27	\$33,560 96

Total collections from January 1 to December 31, 1887. \$33,560 96
 Less amount paid to Harbor Masters. \$6,712 17
 " " for rent and incidental expenses. 496 78
 " " boatmen's salary. 1,200 00 8,408 95
 Net revenue. \$25,152 01

TABLE D.

Superior Court.

	DR.	CR.
By appropriation, Ordinance No.		
37, 1887.....		\$12,000 00
To amount paid Bailiffs.....	\$4,500 00	
“ “ Clerk.....	1,850 10	
“ “ for Drawing		
“ “ Jurors.....	281 30	
“ “ Jurors.....	5,815 50	
“ “ Janitor.....	340 00	
“ “ Sheriff.....	343 40	
By balance, December 31, 1887..		1,130 30
	\$13,130 30	\$13,130 30

TABLE D—Continued.

Criminal Court.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$57,500 00
To amount paid Bailiffs.....	\$7,500 00	
“ “ Sheriff.....	16,296 82	
“ “ Clerk.....	15,950 68	
“ “ State's Attorney.....	7,590 13	
“ “ Stenographers..	2,105 35	
“ “ for incidental expenses.....	89 00	
“ “ Grand and Petit Jurors.....	14,132 73	
To amount paid Attorneys for defending parties charged with infraction of Criminal Laws..	165 00	
To amount paid for board of Jurors.....	559 00	
To amount paid for stationery for Grand Jury.....	84 49	
To amount paid W. M. Cary for Judges' Calender.....	200 00	
To amount paid for detectives' services and expenses.....	126 77	
To amount paid Dr. F. J. Flan- nery, as acting Sheriff.....	63 80	
To amount paid sundry parties as experts.....	105 00	
To amount paid for witnesses...	800 46	
To amount paid for death watch at City Jail.....	157 50	
To amount paid for chemical analysis.....	200 00	
By balance, December 31, 1887..		8,626 73
	\$66,126 73	\$66,126 73

TABLE D—Continued.

Court Common Pleas

	Dr.	Cr.
By appropriation, Ordinance		
No. 37, 1887.....		\$14,000 00
To amount paid Clerk.....\$	2,276 54	
“ “ Bailiffs.....	4,500 00	
“ “ Watchman ..	1,000 03	
“ “ Jurors.....	4,930 50	
“ “ Sheriff.....	348 20	
To balance, December 31, 1887.	944 73	
	\$14,000 00	\$14,000 00

TABLE D—Continued.

Baltimore City Court.

	DR.	CR.
By appropriation, Ordinance		
No. 37, 1887.....		\$14,000 00
To amount paid Clerk.....\$	3,684 05	
“ “ Bailiffs.....	4,500 00	
“ “ Sheriff.....	316 40	
“ “ Jurors.....	4,638 00	
To balance, December 31, 1887.	861 55	
	\$14,000 00	\$14,000 00

TABLE D—Continued.

Circuit Court.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$2,500 00
To amount paid Bailiff and Mes-		
senger.....\$	1,500 00	
“ “ Watchman..	900 00	
“ “ Clerk.....	198 25	
“ “ for Stationery	279 40	
By balance, December 31, 1887.		\$377 65
	\$2,877 65	\$2,877 65

TABLE D—Continued.

Orphans' Court.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$7,500 00
To amount paid Judges.....\$	5,634 00	
“ “ Bailiffs.....	1,252 00	
“ “ Janitor.....	828 88	
“ “ for incidentals	188 22	
By balance, December 31, 1887		403 10
	\$7,903 10	\$7,903 10

Supreme Bench.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$2,575 00
To amount paid Judges.....\$	2,500 00	
“ “ City Collector for furnish- ing list of taxpayers..	75 00	
	\$2,575 00	\$2,575 00

TABLE D—Continued.

Magistrates.

	DR.	CR.
By appropriation, Ordinance		
No. 37, 1887.....		\$15,650 00
To amount paid Magistrates..	\$14,700 00	
“ “ Substitutes ..	612 00	
To balance, December 31, 1887.	338 00	
	\$15,650 00	\$15,650 00

Fines.

	DR.	CR.
By amount of city's proportion		
of fines.....		\$3,041 15
To amount paid for fines remit-		
ted by the Mayor.....	\$ 888 00	
To balance, December 31, 1887.	2,153 15	
	\$3,041 15	\$3,041 15

TABLE D—Continued.

Judgments and Suits.

	DR.	CR.
By appropriation Ordinance No. 37, 1887.....		\$6,000 00
To amount paid sundry judgments rendered against the M. & C. C. by various courts, and for sundry expenses paid	\$1,582 66	
To amount paid as court costs in registration cases.....	5,278 00	
To amount paid witnesses in registration cases.....	1,666 50	
By balance, December 31, 1887.		2,527 16
	<u>\$8,527 16</u>	<u>\$8,527 16</u>

City Council.

	DR.	CR.
By appropriation, Ordinance.. No. 37, 1887.....		\$53,000 00
To amount paid to members...	\$29,641 68	
“ “ to clerks, &c..	13,387 50	
“ “ for printing and other ex- penses.....	9,895 94	
To balance, December 31, 1887.	74 88	
	<u>\$53,000 00</u>	<u>\$53,000 00</u>

TABLE D—Continued.

Police Department.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$705,000 00
To amount paid on warrants of the Board of Police Com- missioners.....	\$702,881 56	
To balance, December 31, 1887	2,118 44	
	\$705,000 00	\$705,000 00
Received from the City Col- lector, on account of the levy for the Police Depart- ment.....		\$685,045 90

TABLE D—Continued.
Supervisors of Elections.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$1,500 00
To amount paid to Clerks.....	\$ 485 00	
“ “ for advertising and incidental expenses	163 67	
“ “ paid Messenger.	35 84	
To balance, December 31, 1887...	815 49	
	\$1,500 00	\$1,500 00

TABLE D—Continued.

Removed Cases.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$4,000 00
By amount received from County Commissioners of Howard County.....		114 31
To amount paid to sundry parties.	2,921 34	
To balance, December 31, 1887...	1,192 97	
	\$4,114 31	\$4,114 31

TABLE D—Continued.

Registration.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$13,000 00
To amount paid Counsellor of Registers.....	\$ 300 00	
To amount paid Registration Officers... ..	10,000 00	
To amount paid for stationery, advertising, &c.....	2,238 57	
To balance, December 31, 1887.	461 43	
	\$13,000 00	\$13,000 00

TABLE D—Concluded.

Baltimore City Jail.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$62,500 00
By amount received for board of United States prisoners..		1,067 65
By amount received for hire of prisoners.....		969 69
By amount received for Jail fees		. 2 50
By amount received for Death Watch.....		157 50
To amount paid on warrants of the Board of Visitors.....	\$60,999 65	
To balance, December 31, 1887	3,697 69	
	\$64,697 34	\$64,697 34

TABLE E.

Receipts from taxation and other sources, and payments on account of interest on Stock Debt.

	DR.	CR.
Received from the City Collector on account of the levy for miscellaneous stocks.....		\$ 680,748 82
Received from the Baltimore and Ohio Railroad Company, interest on the \$5,000,000 loan.....		300,000 00
Received from the Commissioners of Finance, dividend on 32,500 shares Baltimore and Ohio Railroad stock..		130,000 00
Received from Park Board, interest on Public Park and Patterson Park Extension loans.....		41,333 96
Received from Water Board for interest on Water Loans of 1894, 1916 and 1922.....		472,630 00
Received from Western Maryland Railroad Company interest on 1925 loan.....		82,740 00
Paid interest on Stock Debt.....	\$1,812,691 14	
By balance, December 31, 1887.....		105,238 36
	\$1,812,691 14	\$1,812,691 14

TABLE E—Continued.

Receipts on account of the Sinking Funds.

	DR.	CR.
Received from City Passenger Railway Companies, for Park Sinking Fund, as follows :		
Baltimore City Passenger Rail- way Company.....		\$ 6,342 81
Citizens' Passenger Railway Company.....		3,714 86
North Baltimore Passenger Railway Company.....		3,675 89
York Road Passenger Railway Company.....		285 55
Baltimore Union Passenger Railway Company.....		1,419 82
Central Passenger Railway Company.....		1,118 84
People's Passenger Railway Company.....		1,438 07
Highlandtown and Point Breeze Railway Company.....		172 81
To amount paid Commissioners of Finance.....	\$18,168 65	\$18,168 65

TABLE E—Continued.

Loans.

	DR.	CR.
Amount borrowed from sundry parties.....		\$2,025,000 00
To amount paid to sun- dry parties.....	\$1,310,000 00	
To balance, December 31, 1887.....	715,000 00	
	\$2,025,000 00	\$2,025,000 00

TABLE E—Continued.

General Interest.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$ 93,000 00
By amount received from City Collector for interest on ar- rears of taxes.....		119,716 22
To amount paid for interest on loans and accounts due by the M. & C. C. of Baltimore \$131,698 05		
To balance, December 31, 1887	81,018 17	
	\$212,716 22	\$212,716 22

TABLE E—Continued.

Water Board.

	DR.	CR.
By balance, January 1, 1887 ..		\$ 25,095 91
By amount received from water rents and other sources.....		745,445 96
By amount received from City Collector, account of water tax.....		50,421 20
To amount paid on warrants of the Water Board for interest on loans.....	\$472,630 00	
To salaries and other expenses	340,875 15	
To balance, December 31, 1887	7,457 92	
	\$820,963 07	\$820,963 07

TABLE E—Continued.

Dog Pound.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$1,200 00
By amount received for dead dogs		230 24
By amount received for dogs sold at auction.....		98 72
By amount received for dogs redeemed		77 70
To amount paid for dogs cap- tured	\$837 95	
To amount paid for fuel and feed.	61 95	
To amount paid for ground rent.	300 00	
To balance, December 31, 1887.	406 76	
	\$1,606 66	\$1,606 66

TABLE E—Continued

Public Schools.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$125,500 00
By amount from public school salaries		1,630 70
To amount paid on warrants of the Board of School Commissioners.....	\$127,126 01	
To balance, Dec. 31, 1887...	4 69	
	<u>\$127,130 70</u>	<u>\$127,130 70</u>

Receipts from various sources :

From the City Collector, ac- count of the tax levy.....	\$579,372 80
From the State, city's pro- portion of State tax.....	147,402 62
From J. F. Plummer, execu- tor.....	129 48
From H. M. Cowles, secretary for the use of books, &c..	6,636 46
	<u>\$733,541 36</u>

TABLE E—Continued.

Public Schools—Salaries.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$605,000 00
To amount paid on warrants of the Board of School Com- missioners.....	\$603,369 30	
To amount transferred to pub- lic schools	1,630 70	
	\$605,000 00	\$605,000 00

Manual Training School.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$8,000 00
By amount tranferred from gas and electric lights, Ordi- nance 104, 1887.....		3,000 00
To amount paid on warrants of the Board of School Com- missioners	\$10,996 18	
To balance, December 31, 1887.	3 82	
	\$11,000 00	\$11,000 00

TABLE E—Continued.

City Property.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$4,100 00
By sundry parties, for ground rents due the city.....		175 00
To amount of ground rents paid to sundry parties.....	\$4,293 84	
By balance, December 31, 1887.		18 84
	\$4,293 84	\$4,293 84

TABLE E—Continued.

Special Appropriations.

	DR.	CR.
By appropriation, Ordinance		
37, favor of A. Bouldin.	\$4,218 34	\$4,218 34
By appropriation, Ordinance		
37, favor of Jno. S. Macher.	62 78	62 78
By appropriation, Ordinance		
37, favor of Wm. Wilkins..	40 00	40 00
By appropriation, Resolution		
78, favor of Wm. F. Ludwig.	30 00	30 00
By appropriation, Resolution		
79, favor of Mrs. T. W. Red-		
wine	35 00	35 00
By appropriation, Resolution		
111, favor of A. F. Clarke..	58 68	58 68
By appropriation, Resolution		
110, favor of H. L. Walken-		
myer	50 00	50 00
By appropriation, Resolution		
138, favor of Emily J. Albert.	40 00	40 00
By appropriation, Resolution		
140, favor of Chas. Kern....	240 00	240 00
By appropriation, Resolution		
146, favor of Matilda S.		
Forbes	110 00	110 00
	\$4,884 80	\$4,884 80

TABLE E—Continued.

Gas and Electric Lights.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$220,000 00
To amount paid for electric lights.....	\$107,087 80	
To amount paid for gas.....	82,618 10	
To amount paid for repairs, &c.	5,215 17	
To amount transferred to Manual Training School as per Ordinance No. 104, '87.	3,000 00	
To amount transferred to re- pairs sewers and bridges, as per Ordinance No. 112, 1887	6,000 00	
To amount transferred to health and nuisances ac- counts, as per Resolution No. 131, 1887.....	4,000 00	
To amount transferred to lamp pillars, as per Resolution No. 132, 1887.....	1,000 00	
To balance, December 31, 1887.	11,078 93	
	\$220,000 00	\$220,000 00

TABLE E—Continued.

Water Loan, 1922.

	DR.	CR.
By balance, January 1, 1887.....		\$606 00
By amount received from Water Board, sale of sand, &c.....		245 00
To amount paid on warrants of the Water Board.....	\$851 00	
	\$851 00	\$851 00

TABLE E—Concluded.

State Tax on City Loans.

	Dr.	Cr.
By appropriation, Ordinance No. 37, 1887.....		\$16,500 00
By amount received from City Register, Commissioners of Finance, and Western Mary- land Railroad, account of State tax on city loans.....		24,616 92
To amount paid State Treas- urer	\$38,034 63	
To balance, December 31, 1887.	3,082 29	
	\$41,116 92	\$41,116 92

TABLE F.

Druid Hill and Patterson Parks.

	DR.	CR.
By balance January 1, 1887.		\$ 5,695 46
By amount received from City Passenger Railway Companies, as follows :		
From Baltimore City Passenger Railway Company.....		66,695 27
From Citizens' Passenger Railway Company.....		14,859 48
From York Road Passenger Railway Company.....		1,142 16
From North Baltimore Passenger Railway Company.		14,703 54
From Baltimore Union Passenger Railway Company..		5,679 33
From Central Passenger Railway Company.....		4,475 36
From People's Passenger Railway Company.....		5,752 27
From Point Breeze Passenger Railway Company.....		691 21
By amount received from Park Commissioners :		
On account of Druid Hill Park		4,621 45
“ “ Patterson Park.		505 00
On account of Federal Hill Park.....		200 00
To amount paid on warrants of the Park Commissioners.	\$124,987 57	
To balance, December 31, '87.	32 96	
	\$125,020 53	\$125,020 53

TABLE F—Concluded.

Riverside Park.

	DR.	CR.
By appropriation, Ordinance No. 37, 1887.....		\$3,770 62
By appropriation, Ordinance No. 37, 1887.....		4,000 00
To amount paid on warrants of the Park Commissioners....	\$3,996 65	
To amount paid for ground rents.....	3,770 62	
To balance, December 31, 1887.	3 35	
	\$7,770 62	\$7,770 62

STATEMENT A.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.	Balance, Cr.
PUBLIC SQUARES.					
Federal Hill Park.....	\$5,500 00	5,789 63	\$ 325 00	.....	\$ 35 37
Johnston Square.....	2,858 02	2,851 43	.....	.....	6 59
Collington Square	1,000 00	999 13	.....	.....	87
Harlem Park.....	4,000 00	4,000 00	.....	.....	.....
Eutaw Squares, first division .	1,800 00	1,800 00	.....	.....	.....
Eutaw Squares, second “ ..	1,800 00	1,798 92	.....	.....	1 08
Mount Vernon Squares.....	1,500 00	1,500 00	.....	.....	.....
Park Place Squares.....	700 00	699 93	.....	.....	07
Broadway Squares, first div....	2,000 00	1,992 60	.....	.....	7 40
Broadway Squares, sec. div....	2,000 00	1,948 59	.....	.....	51 41
Madison Square.....	2,500 00	2,494 02	.....	.....	5 98
Lafayette Square	1,500 00	1,327 65	.....	.....	172 35
Franklin Square.....	1,650 00	1,650 00	.....	.....	.....
Jackson Square.	900 00	899 51	.....	.....	49

Perkins Spring Square.....	3,252 00	3,252 00	.....	.....	.....
Eastern Fountain.....	1,500 00	1,275 32	.....	.....	224 68
Ashland Square.	150 00	131 00	.....	.....	19 00
Union Square.....	2,400 00	2,189 08	.....	.....	210 92
Baker Circle.....	300 00	300 00	.....	.....	.....
Mt. Royal Avenue Squares....	2,500 00	2,500 00	.....	.....	.....
Frick's Triangle.....	1,000 00	1,000 00	.....	.....	.....
Taney Place Square.....	300 00	297 80	.....	.....	2 20
HEALTH DEPARTMENT.					
General health.....	13,000 00	12,988 26	.....	.....	11 74
Salaries.....	32,000 00	31,987 83	.....	.....	12 17
Quarantine Hospital.....	18,000 00	17,973 33	.....	.....	26 67
Nuisances.....	12,000 00	11,776 82	.....	.....	223 18
Post Mortems.....	833 32	833 32	.....	.....	.....
HARBOR BOARD.					
Dredging, salaries, &c.....	45,000 00	44,921 50	40 00	.....	118 50
Ice-boat <i>F. C. Latrobe</i>	12,000 00	11,992 03	.....	.....	7 97
Repairs of wharves.....	4,000 00	713 23	.....	.....	3,286 77
Repairs of City Dock.....	7,388 06	4,045 14	.....	.....	3,342 92
Bulkhead Little Hawkins' Pt..	6,000 00	5,998 52	.....	.....	1 48
Re-survey of Harbor, &c.....	4,000 00	3,687 26	.....	.....	312 74
Dredging Chan. Sp'g Gardens.	5,000 00	5,000 00	.....	.....	.....
	\$200,331 40	\$192,613 85	\$365 00	.....	\$8,082 55

STATEMENT A—Continued.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.		Balance, Cr.	
CLEANING STREETS.							
Salaries, cleaning street, &c...	255,690 00	255,683 67	1,563 05	.....	.....	1,569 38	.....
Removal of garbage.....	8,250 00	8,250 00	.....	.....	.....	.....	.....
CITY COLLECTOR.							
Salaries, incidentals, &c.....	51,150 00	51,093 83	.....	.....	.....	56 17	.....
Appeal Tax Court.....	400 00	257 80	.....	.....	.....	142 20	.....
CITY POOR.							
Bayview Asylum.....	80,000 00	79,995 82	3,965 46	.....	.....	3,969 64	.....
House of Refuge.....	20,000 00	14,583 40	.....	.....	.....	5,416 60	.....
House of Reformation.....	10,000 00	10,000 00	.....	.....	.....	.....	.....
St. Mary's Industrial School..	20,000 00	20,000 00	.....	.....	.....	.....	.....
Baltimore University.....	2,535 00	2,444 92	.....	.....	.....	90 08	.....
Maryland General Hospital...	2,535 00	2,530 75	.....	.....	.....	4 25	.....
Mount Hope Retreat.....	26,000 00	26,000 00	1,755 00	.....	.....	1,755 00	.....
Maryland Hospital for insane.	13,000 00	13,000 00	1,020 00	.....	.....	1,020 00	.....

Deaf and Dumb	500 00	498 67	.....	1 33
Widows & Orphans, war of 1812	200 00	100 00	.....	100 00
Maryland University	6,750 00	6,750 00	.....	.....
Washington University	6,750 00	6,750 00	.....	.....
Female House of Refuge	3,000 00	3,000 00	.....	.....
St. Vincent's Infant Asylum ..	5,000 00	4,999 93	.....	07
Home of the Friendless	2,100 00	2,100 00	.....	.....
Nursery & Child's Hospital	2,500 00	2,249 98	.....	250 02
St. Elizabeth's Colored Orphan Asylum	1,000 00	999 96	.....	04
Industrial Home for colored Girls	1,500 00	.....	.....	1,500 00
Boys' Home Society	3,000 00	3,000 00	.....	.....
St. Mary's Female Orphan Asylum	2,500 00	2,291 67	.....	208 33
DISPENSARIES.				
Homœopathic, free	600 00	600 00	.....	.....
Northeastern	900 00	900 00	.....	.....
Eastern	900 00	900 00	.....	.....
Southern	900 00	900 00	.....	.....
Baltimore General	600 00	600 00	.....	.....
Baltimore Medical	800 00	800 00	.....	.....
Northwestern	400 00	400 00	.....	.....
	\$529,460 00	\$521,680 40	\$8,303 51	\$16,083 11

STATEMENT A—Continued.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.	Balance, Cr.
DISPENSARIES—CONTINUED.					
Physicians and Surgeons.	800 00	800 00	.....	.....	.....
Woman's and Child's Hospital	500 00	500 00	.....	.....	.....
Baltimore University.	900 00	900 00	.....	.....	.....
University of Maryland.	800 00	800 00	.....	.....	.....
Polyclinic, free.	500 00	500 00	.....	.....	.....
(See Table F.)					
GENERAL SUPT. LAMPS' DEPT.					
Gasoline lamps, lamp pillars, &c	26,000 00	25,982 38	131 80	.....	149 42
Lamp lighters' salaries.	46,514 00	46,514 00	.....	.....	.....
Inspecting gas meters. ....	.....	.....	3,773 25	.....	3,773 25
General Sup't of Lamps.	300 00	300 00	.....	.....	.....
INSPECTOR OF BUILDINGS' DE- PARTMENT.					
Salaries, incidentals, &c.	6,200 00	6,174 58	.....	.....	25 42

Repairs of public schools.	10,000 00	9,994 38	.....	.....	5 62
Repairs of city property.	18,500 00	18,490 31	.....	.....	9 69
Permits for sheds, signs, &c. ....	.....	1,132 52	5,788 90	.....	4,656 38
New Truck House, N. E. Balto.	4,000 00	3,983 30	.....	.....	16 70
Repairs of Baltimore Light Infantry Armory.	2,500 00	2,497 94	.....	.....	2 06
Wood ceilings for schools.	3,000 00	3,000 00	.....	.....	.....
Engine house in W. Balto.	9,000 00	579 05	.....	.....	8,420 95
Building col'd High and Grammar school.	12,000 00	186 38	.....	.....	11,813 62
Building shed at N. E. Market.	9,000 00	8,995 75	.....	.....	4 25
Building primary school No. 8	9,000 00	9,000 00	.....	.....	.....
Building addition to Grammar school No. 21.	4,000 00	3,931 87	.....	.....	68 13
Repairs of No. 7 Engine House	500 00	500 00	.....	.....	.....
Repairs of 5th Reg't. Amory.	1,000 00	990 98	.....	.....	9 02
Repairs of Criminal Court.	3,200 00	3,197 35	.....	.....	2 65
Building Laundry at City Jail	4,500 00	4,500 00	.....	.....	.....
Refurnishing Orphans' Court..	700 00	700 00	.....	.....	.....
Paving Fish Market, Hanover Market.	2,525 00	2,525 00	.....	.....	.....
Paving Fish Market, Lexington Market.	2,000 00	1,924 50	.....	.....	75 50
	\$177,939 00	\$158,600 29	\$9,693 95	.....	\$29,032 66

STATEMENT A—Continued.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.	Balance, Cr.
INSPECTOR OF BULD'GS--CONT'D					
Altering Centre Market	2,800 00	2,039 37	.....	.....	760 63
Atlas City of Baltimore	75 00	25 00	.....	.....	50 00
Observatory Federal Hill Park	3,000 00	2,997 10	.....	.....	2 90
Water closet, No. 1 Truck House	350 00	350 00	.....	.....	.....
Draining well of No. 3 Engine House	700 00	700 00	.....	.....	.....
New Truck House S. Balto . . .	10,500 00	8,592 81	.....	.....	1,907 19
Clerk's Office, Hollins Market.	650 00	643 40	.....	.....	6 60
Clerk's Office, Hanover Market	800 00	796 00	.....	.....	4 00
Repairs of House of Refuge. . .	5,300 00	5,300 00	.....	.....	.....
CITY COMMISSIONER'S DEP'T.					
Salaries, incidentals, &c.	9,550 00	9,544 25	.....	.....	5 75
Improvement of Jones' Falls. . .	.....	146,134 23	180,255 40	.....	34,121 17

Repairs of paved streets.....	75,000 00	74,911 25	1,200 58	.....	1,289 33
Repairs of bridges.....	7,900 00	7,857 25	.....	.....	42 75
Repairs of sewers.....	13,100 00	13,055 62	2,302 68	.....	2,347 06
Light street bridge.....	2,050 89	2,013 77	.....	.....	37 12
Iron plates.....	3,000 00	2,714 00	.....	.....	286 00
Flag and stepping stones.....	8,000 00	7,709 92	.....	.....	290 08
Cross streets.....	8,000 00	7,876 07	.....	.....	123 93
Improvement of Harford Run.	.....	137,674 40	148,343 92	.....	10,669 52
Repairs of unpaved streets...	2,000 00	1,497 69	.....	.....	502 31
Dredging Jones' Falls.....	153 38	153 38	.....	.....	.....
Lanvale street sewer.....	13,452 27	13,449 34	.....	.....	2 93
Low street sewer.....	1,500 00	1,499 18	42 51	.....	43 33
Re-paving Centre Market.....	6,250 00	6,110 85	60 00	.....	199 15
Paving streets in Bolton prop- erty.....	.....	155 60	.....	155 60	.....
Necessity alley sewer.....	.....	15 63	.....	15 63	.....
Mosher street sewer.....	6,500 00	6,452 77	.....	.....	47 23
North Avenue sewer.....	5,000 00	4,984 21	8 67	.....	24 46
New turn-table at Drawbridge.	974 85	974 85	.....	.....	.....
Repairing gutters at Charles and Eager Sts.....	1,800 00	1,790 99	.....	.....	9 01
Vaults and Areas.....	.....	.....	627 00	.....	627 00
Paving City Property.....	1,000 00	997 01	.....	.....	2 99
	\$189,406 39	\$469,015 94	\$332,840 76	\$171 23	\$53,402 44

STATEMENT A—Continued.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.	Balance, Cr.
CITY COMMISSIONER'S DEPT CON'D.					
Paving Loan, 1920		6,256 33	8,670 18		2,413 85
Atlas of city of Baltimore	75 00	25 00			50 00
Shelling Bayard street	500 00	467 15			32 85
Shelling Ridgely street	500 00	414 35			85 65
Shelling Warner & Dock Sts. .	500 00	387 10			112 90
Shelling Washington Road . .	800 00	796 65	3 50		6 85
Shelling Eastern avenue	700 00	700 00			
Shelling Monument & Fayette Sts	600 00	600 00			
Inlets to Howard street sewer.	700 00	684 41			15 59
Repairing floor of Calvert street bridge	536 00	536 00			
Repairing floor of St. Paul street bridge	946 25	946 25			

Changing kerb, Eutaw Place..	600 00	511 75	.....	.....	88 25
Traps to Eager street sewer...	112 00	78 31	.....	.....	33 69
Shelling Liberty road.....	50 00	40 51	.....	.....	9 49
Shelling Franklin street.....	100 00	99 41	.....	.....	59
Iron Plates, Pratt and Monroe streets.....	900 00	690 24	.....	.....	209 76
Pavement, Balto. St. side, Pat- terson Park.....	1,600 00	1,392 89	.....	.....	207 11
Rail on Ridgely street.....	150 00	149 35	.....	.....	65
Paving footway at Johnston square.....	2,500 00	2,158 50	.....	.....	341 50
Iron Plates, Howard & Barre streets.....	850 00	709 22	.....	.....	140 78
Culvert at Eager and Calvert streets.....	1,200 00	1,199 23	.....	.....	77
Shelling Point lane.....	250 00	249 70	.....	.....	30
Improvement of Fulton avenue.	3,500 00	2,772 25	.....	.....	727 75
Macadamizing Falls road.....	999 95	999 95	.....	.....	.....
Engine for Light St. bridge...	287 50	287 50	.....	.....	.....
FIRE DEPARTMENT.					
Salaries, new apparatus, re- pairs, &c.....	201,604 25	201,604 22	236 48	.....	236 51
	\$220,560 95	\$225,756 27	\$8,910 16	\$171 23	\$3,714 84

STATEMENT A—Continued.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.	Balance, Cr.
FIRE DEPARTMENT—CONT'D.					
Fire alarm boxes at various places	3,622 50	3,621 98	.....	.....	52
Hook and Ladder Co. No. 5..	7,650 00	7,649 91	.....	.....	09
Keyless doors on Fire-alarm Boxes	1,350 00	1,350 00	.....	.....	
Lot for Engine House in west Baltimore.....	3,000 00	3,000 00	.....	.....	
MISCELLANEOUS.					
Assistance to Examiner of Titles.....	.....	583 00	.....	583 00	.....
Mayoralty	2,000 00	1,832 95	.....	.....	167 05
Auction duties .....	.....	.....	7,431 16	.....	7,431 16
City Librarian	8,000 00	7,676 57	20 00	.....	343 43
Refunded taxes.....	2,500 00	3,518 36	.....	1,018 36	.....

Public printing.....	2,000 00	812 45	306 00	.....	1,493 55
Court house.....	6,185 00	5,901 81	.....	.....	283 19
Masonic Hall.....	3,298 00	3,283 20	.....	.....	14 80
General expense.....	1,500 00	1,188 84	.....	.....	311 16
Superintendent of City Hall..	18,843 83	18,685 04	24 60	.....	183 39
Patterson Park, extension....	.....	16 10	355 03	.....	338 93
Fines.....	.....	888 00	3,041 15	.....	2,153 15
Coroners.....	2,400 00	2,400 00	.....	.....	.....
Commissioners Opening Streets	200 00	123 01	.....	.....	76 99
Salaries.....	72,669 60	72,624 35	.....	.....	45 25
Cleaning cess-pools.....	1,500 00	1,494 00	.....	.....	6 00
Tax sales.....	2,500 00	957 41	1,930 68	.....	3,473 27
Elections.....	14,000 00	10,662 77	.....	.....	3,337 23
Transportation to H. of Correc- tion.....	400 00	225 90	.....	.....	174 10
Maryland Institute.....	6,000 00	6,000 00	.....	.....	.....
Insurance of Bayview Asylum	1,305 00	1,305 00	.....	.....	.....
Ringing Mechanics bells.....	200 00	200 00	.....	.....	.....
Winding Maryland Institute clock.....	75 00	75 00	.....	.....	.....
New fire-plug, fountains, &c..	4,000 00	4,000 00	.....	.....	.....
Enoch Pratt Free Library....	50,000 00	50,000 00	.....	.....	.....
Suspense account.....	1,627 50	1,627 50	.....	.....	.....
	\$216,826 43	\$211,703 15	\$13,108 62	\$1,772 59	\$19,833 26

STATEMENT A—Continued.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.	Balance, Cr.
MISCELLANEOUS—CONTINUED.					
Intestate estates .....	.....	.....	73 30	.....	73 30
Ice-boat, <i>Maryland</i>	10,000 00	10,000 00	.....	.....	.....
Turnpike dividends .....	.....	.....	158 00	.....	158 00
Water Loan 1922 .....	.....	851 00	851 00	.....	.....
Sale of city property .....	.....	376 24	492 50	.....	116 26
Renumbering houses .....	.....	17,787 00	10,975 51	6,811 49	.....
Unclaimed damages .....	.....	749 21	808 16	.....	.....
Hose for sundry markets	550 00	511 10	.....	.....	58 95
Music at Public Parks	3,000 00	3,000 00	.....	.....	38 90
Conscience fund .....	.....	.....	150 00	.....	.....
Purchase of Eave Stall No. 7	.....	.....	.....	.....	150 00
Hollins Market	200 00	200 00	.....	.....	.....

Purchase of Lot for Primary					
School No. 8.....	.....	1,200 00	.....	1,200 00	.....
Draining well of No. 1 Engine					
House, &c.....	750 00	750 00	.....	.....	.....
	\$14,500 00	\$35,424 55	\$13,508 47	\$9,784 08	\$595 41

STATEMENT B.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.		Balance, Cr.	
Opening Patapasco street.....	819 15	361 02	.....	.....	.....	458 13	
Opening Robert street.....		108 26	3,639 37	.....	.....	3,531 11	
Opening Oliver street.....		35 31	.....	35 31	.....	.....	
Opening Hoffman street.....		18 10	315 50	.....	.....	297 40	
Opening Bethel street.....		101 94	.....	101 94	.....	.....	
Opening Calhoun street.....		1,658 29	2,119 95	.....	.....	461 66	
Opening Townsend street.....		404 01	14 35	.....	.....	.....	
Opening Mount street.....		1,152 66	.....	1,152 66	.....	.....	
Opening Burke street.....		916 34	.....	916 34	.....	.....	
Opening Cannon street.....		609 70	291 67	.....	318 03	.....	
Opening Preston street.....	14,954 32	30,758 16	20,461 04	.....	.....	4,657 20	
Opening Monroe street.....	43,654 59	107,684 83	66,330 65	.....	.....	2,300 41	
Opening Chester street.....		199 98	.....	.....	199 98	.....	
Opening Patuxent street.....		566 73	.....	.....	566 73	.....	
Opening East street.....		180 84	1,141 13	.....	.....	960 29	

Opening Mt. Royal avenue.....	2,382 27	17,966 62	.....	15,584 35
Opening Patterson Park ave..	4,936 00	3,846 84	.....	207 34
Opening Carey street.....	17 00	.....	17 00	.....
Opening Russel street.....	222 90	.....	222 90	.....
Opening Holbrook street.....	3,046 32	213 87	296 15	.....
Opening Barelay street.....	134 70	.....	.....	.....
Opening Patapsco alley.....	195 18	.....	195 18	.....
Opening Race street.....	181 16	.....	.....	373 46
Opening Kirby's lane.....	79 16	.....	79 16	.....
Opening Biddle street.....	2,330 53	.....	2,330 53	.....
Opening Donaldson street.....	360 32	.....	360 32	.....
Opening Beverlin street.....	226 48	.....	226 48	.....
Opening Clarkson alley.....	552 48	49 33	503 15	.....
Opening John street.....	32 06	.....	32 06	.....
Opening McComas street.....	272 16	.....	272 16	.....
Opening Clement street.....	6,761 47	6,531 28	.....	4,690 12
Opening Federal street.....	178 56	.....	178 56	.....
Opening Jephson street.....	330 23	.....	330 23	.....
Opening Johnson street.....	223 57	.....	223 57	.....
Widening Orleans street.....	103,069 06	29,130 62	.....	3,108 23
Opening a 12 feet alley, from Lanvale street.....	220 43	.....	220 43	.....
Opening Lanvale street.....	346 34	.....	346 34	.....
	\$145,917 16	\$270,854 55	\$152,052 22	\$36,629 70

STATEMENT B—Continued.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.	Balance, Cr.
Opening Scott street		300 72	.....	300 72	.....
Opening North avenue		5,829 13	.....	5,829 13	.....
Opening Collington avenue		701 07	.....	701 07	.....
Opening Ostend street	23,837 05	38,443 78	14,670 86	.....	64 13
Opening Mosher street		267 60	.....	267 60	.....
Opening Washington street		627 51	.....	627 51	.....
Opening Henry street		216 85	.....	216 85	.....
Opening Mulberry street		541 86	.....	541 86	.....
Opening Stockholm street		260 57	.....	260 57	.....
Opening Wilkens avenue			825 00	.....	825 00
Opening Elting street		133 80	51 50	82 30	.....
Opening Box alley	3,029 49	12,338 83	9,309 34	.....	.....
Opening Beason street		374 23	.....	374 23	.....
Opening Douglas street		3,460 56	.....	3,460 56	.....
Opening Morton alley		25 23	.....	25 23	.....

Opening Pulaski street.....	555 05	.....	555 05	.....
Opening Lexington street.....	1 00	.....	1 00	.....
Opening Payson street.....	539 48	.....	539 48	.....
Opening Nanticoke street.....	381 82	.....	381 82	.....
Opening a 40 feet street, Light to William street.....	172 13	.....	172 13	.....
Opening Wicomico street.....	348 83	.....	348 83	.....
Opening Fulton avenue.....	450 98	19 00	431 98	.....
Opening Harlem avenue.....	431 73	.....	431 73	.....
Opening Saratoga street.....	393 10	.....	393 10	.....
Opening Madison street.....	90 30	.....	90 30	.....
Opening a 40 feet street, N. of Townsend street.....	113 43	.....	113 43	.....
Opening Clare street.....	436 42	.....	436 42	.....
Opening Exeter street.....	27 24	.....	27 24	.....
Opening alley from Central avenue to Eden street.....	26 00	.....	26 00	.....
Opening alley from Caroline street to Spring street.....	26 00	.....	26 00	.....
Opening alley 10 feet wide, from Eden to Spring street.....	38 50	.....	38 50	.....
Opening alley 9 feet 9 in. wide, from Eden to Spring street..	26 00	.....	26 00	.....
	\$26,866 54	\$67,579 75	\$24,875 70	\$16,726 64
				\$889 13

STATEMENT B—Continued.

ACCOUNTS.	Appropriations	Expenditures.	Receipts.	Balance, Dr.	Balance, Cr.
Opening alley from Caroline to Dallas street		26 00	.....	26 00	.....
Opening Dallas street		151 88	.....	151 88	.....
Opening Wooster street		170 45	.....	170 45	.....
Opening Carroll street		430 88	.....	430 88	.....
Opening south Paca street		124 05	.....	124 05	.....
Opening Cooksie street		208 70	.....	208 70	.....
Opening Andre street		251 64	.....	251 64	.....
Opening Richardson street		193 10	.....	193 10	.....
Opening Port alley		111 10	.....	111 10	.....
Closing Butcher's lane		498 33	.....	498 33	.....
Closing Point lane		25 85	170 77	.....	144 92
Closing Fourth street		1 00	.....	1 00	.....
Closing V. alley		79 65	.....	79 65	.....
Closing Brown's lane		247 21	.....	247 21	.....

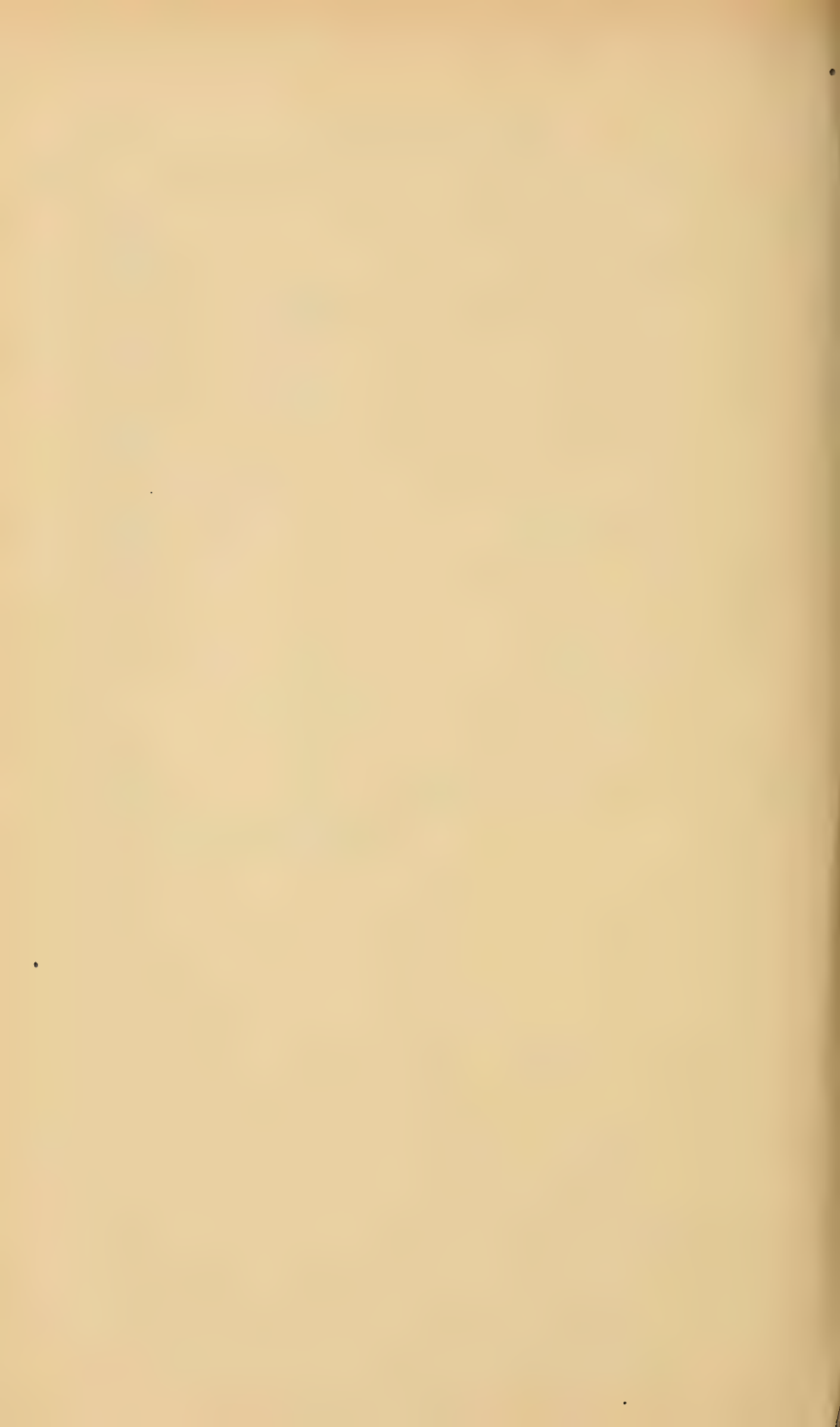
Closing Milliman street	18 17	.....	18 17	.....
Closing Kirby's lane	113 00	.....	113 00	.....
Closing Carey street	42 30	.....	42 30	.....
Opening alley from Eden to Spring street	13 50	.....	13 50	.....
Opening Penn street	480 17	.....	480 17	.....
Opening Bouldin alley	252 10	.....	252 10	.....
Closing Belvidere street	174 41	.....	174 41	.....
	\$26,866 54	\$3,613 49	\$170 77	\$3,587 64
				\$144 92

TABLE G.

Amount paid for paving streets, also the amount received from the City Collector, payments by sundry parties.

	DR.	CR.
Paving Plum alley.....	\$ 19 82	\$ 123 65
" Hull street.....	239 65	
" Broadway.....		12,888 90
" Biddle street.....	5,060 24	4,605 61
" Hanover street.....		5,711 61
" Sewell street.....		249 64
" Morris alley.....	13 28	34 77
" Mount street.....		57 45
" 20 feet alley near Penn- sylvania avenue....	49 06	
" Eden street.....		758 15
" West Baltimore street.		85 70
" Calhoun street.....		189 02
" Chester street.....	70 02	
" North avenue.....	727 13	566 15
" Hoffman street.....	31 12	
" Madison street.....		829 90
" 20 feet alley, Hoffman to Gelston.....		30 31
" McHenry street.....	3,055 66	2,118 62
" German street.....		154 64
" Liberty street.....		696 68
" Orleans street.....	108 92	
" Clement street.....	238 85	
Amounts carried forward...	\$9,613 75	\$29,100 80

Amounts brought forward...	\$9,613 75	\$29,100 80
Paving Franklin street.....		319 18
“ Mosher street.....		254 01
“ Tennant street.....	23 34	84 14
“ Edmondson avenue....	9,072 58	
“ Belt street.....	4,429 26	4,273 34
“ Wilkins avenue	3,499 39	
“ Bruce alley.....		382 22
“ East Fayette street...		4,458 57
“ Fulton avenue.....	25,633 56	13,328 46
“ Cross street.....		173 73
“ Gold street.....		736 13
“ Saratoga street.....		97 50
“ Bethel street.....	2,087 84	2,160 46
“ Box alley.....		70 00
“ Lanvale street.....	7,498 34	
“ Interest.....		359 87
“ Oliver street.....	726 95	
By balance, December 31, 1887.		6,786 60
	\$62,585 01	\$62,585 01





ANNUAL REPORT

OF THE

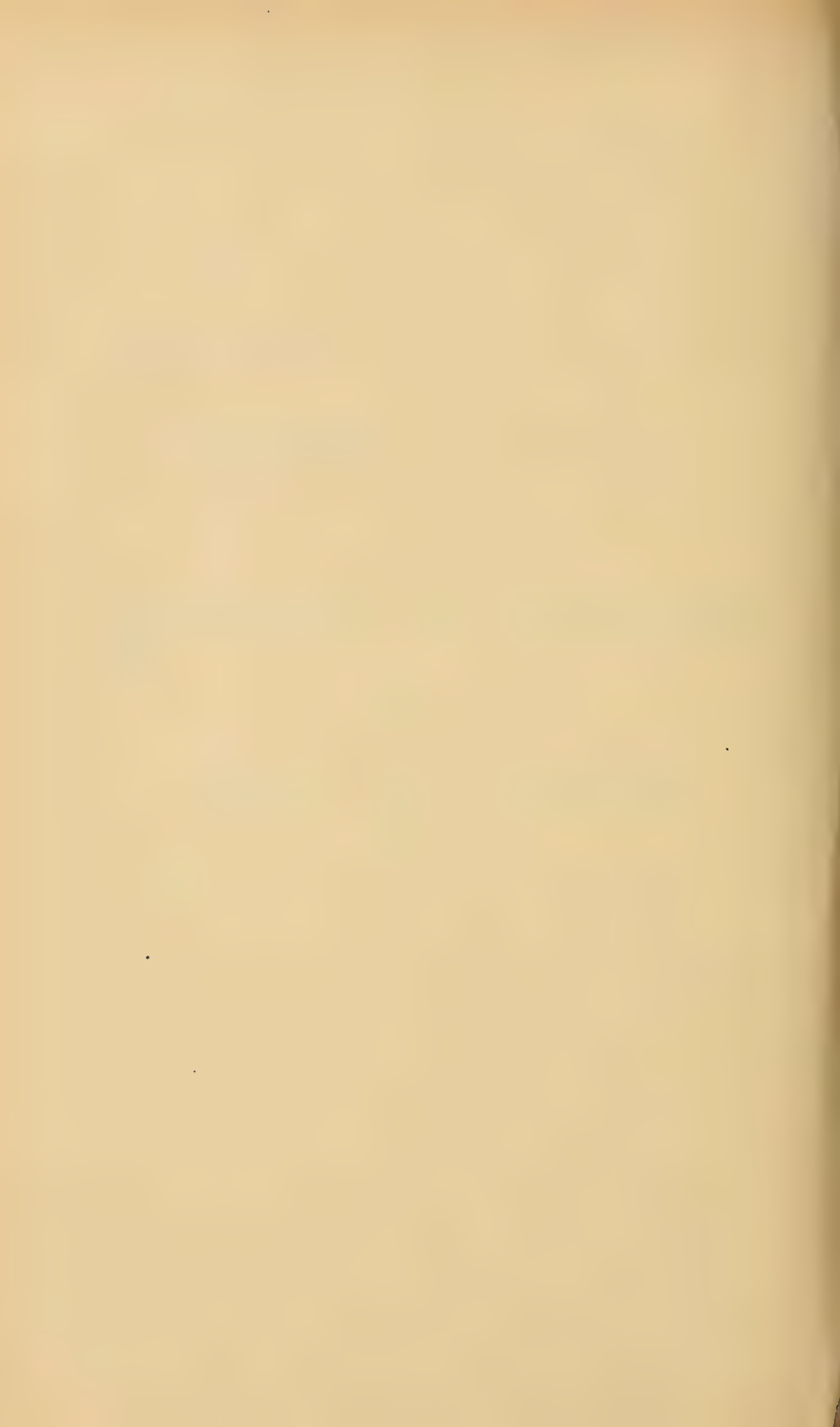
Inspector of Buildings

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1887.



REPORT.

OFFICE OF INSPECTOR OF BUILDINGS,

BALTIMORE, December 31st, 1887.

To the Honorable the Mayor

and City Council of Baltimore :

GENTLEMEN :

I have the honor to submit for your consideration the following report of the operations of this Department, for the year ending December 31st, 1887.

NEW SCHOOL HOUSES.

No. 8 Male and Female Primary.

In accordance with Ordinance No. 19, a new school house is being erected on the site of the old one, on S. Caroline street, and is nearing completion. It contains fourteen light, airy class rooms, two teachers' rooms, two hat and cloak rooms, and one book room; the two stairways are of fire-proof construction, and the whole building is well ventilated. The school house is two stories high, with cellar under the whole area; it has a frontage on Caroline street, of 94 feet

7 inches, and a depth of 59 feet 7 inches, and has two spacious yards or play grounds in the rear, extending to Dallas street. The contract was awarded to Mr. James H. McAfee, and the time allowed expires February 1st, 1888. There is every prospect of the building being completed by that time, and within the appropriation.

No. 21 Grammar School.

As directed by Resolution No. 48, an addition was made to this school house in the rear containing four large class rooms, each being furnished with a cupboard for books, etc. The addition was built on piers and arches so as not to curtail the already limited play grounds of this school. The class rooms in the old portion of the school were rearranged, the building painted inside and out, the yards repaved, the roof repaired and painted, and the whole thoroughly renovated.

Colored High and Grammar Schools.

By Ordinance No. 17, I was instructed to erect a new school house on Saratoga, near Charles street. Owing to legal obstacles the site for the house was not secured until the latter part of September. The drawings were at once commenced, but the contract has not been awarded yet. The plans provide for a large three-story building containing twenty-four class rooms,

three teachers' rooms, three hat and cloak rooms, two book rooms. Three stairways and corridors on each floor the whole length of the building. It has a frontage on Saratoga street of 66 feet and a depth of 127 feet 3 inches, and will have extensive play grounds in the rear. Suitable provisions have been made for heating and ventilating all the rooms. The building when completed will be one of the largest schools in the city, affording ample accommodations for 1,200 children.

REPAIRS TO PUBLIC SCHOOL HOUSES,

No. 12 Primary, Barre and Warner Streets.

A new brick privy was erected here, the old one being taken down in consequence of its unsafe condition.

No. 6 Colored School, Barre St. near Eutaw.

The dangerous condition of the front wall of this building rendered it necessary for a portion of it to be taken down. This was done, the wall rebuilt, and it is now in good condition.

No. 15 Primary School, Carrollton Avenue and Saratoga Streets.

The violent storm of July 18th, damaged this school house to a considerable extent, the larger portion of the roof was torn off and the chimneys blown down.

A new roof was put on, all the damages restored, and the house newly painted.

NOTE.—The damage done by this storm amounted to about \$2,500, and was paid for out of the appropriation for repairs to school houses. This precluded me from doing much of the painting I had intended the school houses to receive this year.

Manual Training School.

Partitions were removed in this school to enlarge class rooms. The blacksmith's shop was graded and paved, and a portion of the interior of school was painted.

No. 6 Grammar School, Division Street.

New storm doors were furnished to this school house. The other school houses were generally repaired and kept in good condition. Nineteen new fences were put up, and several roofs were repaired and painted.

No. 5 Colored School, Eastern Avenue.

I again respectfully call the attention of your Honorable Bodies to this school. I deem it entirely unfit for school purposes; it is altogether inadequate for the accommodation of the number of scholars attending, and is deficient in light, and badly ventilated.

Ceilings of School Houses.

Since my last report sixty-two of the most dangerous plaster ceilings have been removed and wood ones sub-

stituted, and I respectfully ask your Honorable Bodies to continue the annual appropriation until this danger is entirely averted. There are still about five hundred and sixty plaster ceilings in the sixty-two school houses and each year increases the danger and renders them more liable to fall.

The privies of our public schools, as I reported last year, are not at all satisfactory as regards their sanitary condition. Some of them have been condemned by the Health Officers. Since my connection with this department I have drained fourteen wells from school, engine and market houses, and find this partly remedies the evil as it affords the opportunity of a plentiful use of water for flushing out and cleaning the vaults of the privies. His Honor the Mayor suggests, we try as an experiment a new sanitary arrangement (specially adapted for school purposes) lately patented by Messrs. I. D. Smead & Co., Toledo, and which is reported to work satisfactorily in other cities. If this should prove effective, I would earnestly recommend a liberal appropriation for its speedy adoption to all our schools with defective sanitary arrangements.

ENGINE HOUSES.

No 6 Truck House.

A new truck house has been erected at the N. E. Cor. of Hanover and Ostend Sts., as directed by ordinance No. 6. It has a frontage on Hanover St. of 25 feet, and

on Ostend St. of 110 feet. The house is furnished with the most approved appliances and facilities for the convenience and comfort of both men and horses. The house will be completed in a few days within the appropriation.

No. 5 Truck House

Was completed and accepted, the Fire Commissioners taking possession in April last. I would recommend the alley in the rear of this house be paved.

Engine House No. 14.

Ordinance No. 19 appropriated \$9,000 for the purpose of erecting a new engine house in the western section of the city. A delay in selecting the site and other matters connected with the title of the property, rendered it late in the season before I could prepare the drawings. The house has, however, been estimated for and the contract awarded to Mr. James B. Yeatman, the lowest bidder; to avoid delay, the lot was graded before the contract for the building was awarded. The drawings for this house provide for all the requirements of the Fire Department, their wishes have been consulted, and where possible adopted; and I think when completed, the building will be found in every way satisfactory. The site selected for the building is on the north side of Hollins St. near Monroe St.

No. 1 Engine House

Was furnished with new sliding pole.

No. 2 Engine House.

New water closet and bath were put in, and a new pavement laid.

No. 3 Engine House.

The well under floor of this house was drained according to Resolution No. 19, and I am glad to state this has effectually abolished a great nuisance of long standing. A good and substantial new floor was laid.

No. 4 Engine House

Also received a new floor.

No. 7 Engine House.

According to Resolution No. 54, the stalls in this house were rearranged being placed on either side the apparatus, thus affording better facilities for exit. A new floor was also laid, a new roof put on, and other necessary repairs executed.

No. 9 Engine House

Was thoroughly painted.

No. 10 Engine House.

A new brick pavement was laid to this house.

No. 12 Engine House.

New front doors were furnished.

No. 1 Truck House.

The water closet of this house has been drained as directed by Resolution No. 18, much to the relief of the members of this company. A new water closet was supplied, a sliding pole furnished, a new asphalt block pavement laid, and the house neatly papered and painted.

No. 2 Truck House.

A new wood ceiling has replaced the old plaster one, which had become dangerous.

All the engine and truck houses, where the necessity existed for any repairs, have had prompt attention, and several of the rooms have been neatly papered in the different houses.

MARKET HOUSES.

N. E. Market.

A new market shed, 115 feet by 210 feet, has been erected at this market covering the whole of the space south of the old market shed. Nine thousand dollars was appropriated for this purpose by Ordinance No. 18. This large and commodious building has contributed greatly to the comfort and convenience of the buyers

and sellers at this market, and is highly appreciated by the citizens of this section of the city. It was built within the appropriation.

Centre Market.

The conversion of the market between Lombard and Pratt Sts. into a wholesale market for produce dealers, has been done as authorized by Ordinance No. 91. The two end portions of this market, directed by Ordinance to remain, were converted into neat looking sheds, and made to answer the purposes designed.

An unexpended balance of this appropriation was put to good use, by draining the wells of Engine House No. 1, and the Grammar and Primary Schools, corner of Greene and Fayette Sts., according to Resolution No. 4.

Hanover Market.

An office for the market master was erected at a cost of \$800 in accordance with Ordinance No. 55. This will save the city \$180 per annum hitherto paid for office rent.

The portion of this market occupied as a fish market, was laid with granolithic pavement, as directed by Resolution No. 125.

Lexington Market.

In accordance with Resolution No. 126, a granolithic pavement was also put down, in that portion of this market known as the fish market.

Richmond Market.

The fish market here, also received a granolithic pavement. These pavements, although costly, are the most durable, and time will prove them to be the cheapest.

Hollins Market.

This market has also been furnished with an office for the market master, as directed by Resolution No. 29, and I am pleased to report that all the markets (with one exception) have now offices attached for the convenience of those having business with the clerks.

The above markets, and all others not named, have been kept in good order, painting, repairs to roof, paving, etc., being done wherever necessary.

Broadway Institute Hall.

The well under this hall has been properly drained to sewer on Broadway.

HOUSE OF REFUGE.

An unexpended balance from an appropriation to this institution was, by Resolution No. 105, applied to the purpose of repairing the buildings of the said institute, and I was directed to take charge of the work. I found the buildings of the refuge in a very dilapidated condition, and, although I have spent \$5,-

300.00 to the best of my judgment in doing the most needed repairs, the large extent of the buildings and the almost innumerable repairs required made it impossible for me to complete the restoration of the buildings and caused the money spent to show to little advantage. There are four large buildings connected with the Refuge containing 300 rooms, and it was found necessary to do repairs in 260 of these. Amongst the other matters which received attention, I will mention the following items :

The plaster ceiling of the main dining room, on account of its faulty condition, was removed and a wood ceiling substituted, this room was painted and frescoed. The corridors (which are 136 feet long and 10 feet wide) and several of the class rooms were also frescoed and painted. Seventy-one new box frames and sash were placed in the bed-rooms of the inmates, adding greatly to the comfort of the boys ; the old windows were in such bad condition they failed to keep the rain out ; one afternoon whilst I was on the premises the rain beat in and ran across the floors of 33 bed-rooms, although the windows were closed at the time. The roofs and spouts were repaired, several chimneys that were toppling over were rebuilt and pointed up, and the stone walls of the buildings were also partially pointed up. The stoves and furnaces were overhauled and put in repair. Several hundred new panes of glass were put in. The snow boards and

the gangways on roofs were repaired and in many instances replaced with new ones. The plumbers' work throughout the building was overhauled, repaired and renewed. A new water closet was erected, a considerable improvement on the old one. I also purchased two new washing machines to replace the old ones which were worn out.

BALTIMORE CITY JAIL.

This building has been kept in repair chiefly by the inmates ; the warden, Mr. Jno. Waters, willingly furnishing all the labor the inmates could accomplish, and this department being only called upon to furnish the materials and what work it was deemed inadvisable to allow the inmates to do. The slate roof of this building has been a source of great annoyance and expense owing to its leaky condition. I would recommend an appropriation be made to remove the slate, cover the roof with felt, and reslate it, using the old slate when sound and perfect. The window frames and sash in the main building require remodeling.

Resolution No. 98, authorizing the erection and equipment of a laundry in the rear of the new annex, has received attention and a building was erected and furnished with the necessary machinery, which gives general satisfaction.

CITY HALL.

Several of the rooms have been painted, the furnaces put in repair, and the cellars whitewashed. Rail and desks were erected in the Police Department to make it more private. The roofs have been repaired, also the iron area gratings. The water closets in this building are very defective and are constantly out of order; they are badly ventilated and a source of much annoyance and expense. I would again suggest to your Honorable Bodies the desirability of removing all water closets and urinals from within the building and substituting others (with improved sanitary appliances) in the Court yards, accessible from each story of the Hall; this would relieve the building from the offensive odor arising from the closets, etc., the serious damages caused by bursting of pipes and the overflow of water, and save the present large outlay for repairs. The present closets have been denounced by the Health Department, and Dr. Stewart, Health Commissioner, approves of the plan here suggested.

COURT HOUSES.

Criminal Court.

According to Resolutions No. 97 and 135, this Court has been thoroughly remodeled and put in good repair, to the satisfaction of the Judge, Clerks and members of the Bar. A new asphalt floor was laid in lieu of the

old wood one, the walls and ceiling were neatly frescoed, and the woodwork painted, new doors were furnished, plumbing repaired, new furnaces put in, and new desks and chairs provided for the Clerks, State's Attorney, Lawyers and Reporters, also over 12 dozen comfortable chairs for the public. A new well was sunk in the yard, the old one having become useless. The retaining walls around the building were repaired and pointed up and the paving in yard relaid.

Orphans' Court.

Resolution No. 121, directing the refurnishing of this Court, has been accomplished to the complete satisfaction of the Judges and Register of Wills.

Circuit Court

Was neatly papered and painted.

Court of Common Pleas

Was furnished with two new furnaces and the Court Room ventilated.

Superior Court

Was frescoed and painted.

BALTIMORE LIGHT INFANTRY ARMORY.

By Resolution No. 36, an appropriation of \$2,500.00 was made to remodel and repair this building, which I

found in a very dilapidated condition. A new addition was erected containing six rooms, a gallery, stairway, and large main entrance. The south wall was straightened, the roof repaired and the skylights covered with wire to protect the glass.

FIFTH REGIMENT ARMORY.

By Resolution No. 62, I was directed to expend \$1,000.00 for repairs to this building. The woodwork on the outside has been thoroughly painted, on the inside the main sitting-room was frescoed and painted and four other rooms frescoed, the roof was repaired and painted, several of the window sash had the cords removed and were rehung with chains, and other repairs needed were done, the money being expended to the best advantage.

OBSERVATORY FEDERAL HILL PARK.

This structure, owing to delay on the part of the contractors, was not accepted by me until the latter part of August, when it was turned over to the Honorable Board of Park Commissioners.

EASTERN CITY SPRING.

At this park I was compelled to have the old Pagoda which covered the drinking fountain removed on account of its dangerous condition.

McCLURE'S DOCK.

The old fence was removed and a new one erected.

DOG POUND.

The pens of the pound have been enlarged and repaired and all the buildings well whitewashed.

CESS-POOLS

Have had prompt attention, being emptied whenever necessary.

RENUMBERING HOUSES.

The contract for re-numbering the houses of this City, which was done under the supervision of this Department, was completed and accepted February 21st, 1887. This change will, I think, prove beneficial, and is growing in favor every day.

BATH-ROOMS.

I respectfully suggest the repeal of that portion of the laws relating to frame bath-rooms, which requires the applicant to pay two dollars for advertising, besides paying for the permit. The advertising I consider unnecessary, as I have not received a protest against the erection of a bath-room since my connection with this Department. I would further suggest that on payment of one dollar a permit be granted for bath-rooms that do not project over six feet from the build-

ing, and that two dollars be charged for all that exceed six feet.

BUILDING LAWS.

A code of building laws (so much needed in this city) is being prepared by the Master Builders' Association, and I have promised to assist them to the best of my ability and judgment. It will be submitted to your Honorable Bodies for consideration in the near future, and, although its adoption will entail additional expense in the way of clerk's hire and deputies, I cannot too earnestly call your attention to the imperative necessity for such a code of laws. Flimsy buildings of most dangerous construction, which are a disgrace to our city, are being built around us, over which this Department (although called the Inspector of Buildings) has no control whatever.

DANGEROUS WALLS AND FIRE ESCAPES.

I have, during the past year, inspected and condemned, or ordered to be repaired, about 231 dangerous walls, besides numerous notices issued for repairs to spouts, chimneys, &c.

In compliance with a Resolution of the Council directing the Police Department to supply me with a list of all factories, warehouses, &c., where twenty or more people were employed on the premises, I was furnished with a list containing 635 buildings, all of

which have been visited and notices issued from this office for the erection of 291 fire escapes.

NOTE.—This Department has been conducted on economical and business-like principles and in the interests of the taxpayers. During the last six years the books of this office will show a saving in three items of \$86,420.97, when compared with the six previous years.

The revenue, too, of this office (I am pleased to report) during the same period (six years) exceeded that of the previous six years \$16,019.13, notwithstanding many of the sources of revenue were abolished amounting in all to not less than \$1,800.00 per annum.

These items combined show a clear gain to the city during this period of \$102,440.10.

The tables accompanying this report will show :

A, the amount of appropriations and disbursements of this Department during the year 1887.

B, the revenues of this office for the same period.

C, The estimates of the amounts required for this Department for the year 1888.

To all which I beg respectfully to call your attention.

J. THEODORE OSTER,

Inspector of Buildings.

TABLES.

TABLE A.

Showing the amount of appropriations for this Department for the year 1887, and the amounts disbursed.

OBJECT OF APPROPRIATION.	APPRO- PRIATED.	EXPENDED.	BALANCE UNEXPENDED
For repairs of public school houses.....	\$ 10,000 00	\$ 9,994 38	\$ 5 62
“ “ city property.....	18,500 00	18,490 31	9 69
“ substituting wood for plaster ceilings..	3,000 00	3,000 00	.....
“ emptying cess-pools.....	1,500 00	1,494 00	6 00
“ incidental expenses and livery.....	700 00	674 58	25 42
“ salaries.....	5,500 00	5,500 00	.....
“ map of city.....	75 00	25 00	50 00
“ new Truck House No. —, Hanover and Ostend streets.....	10,500 00	8,592 81	1,907 19
“ Market Master's House, Hollins Market	650 00	643 40	6 60
“ new Engine House No. —, Hollins, west of Monroe street.....	9,000 00	578 95	8,421 05
“ water-closet, No. 1 Truck House, Har- rison street.....	350 00	350 00	.....
“ No. 3 Engine House drain, Lombard St.	700 00	700 00	.....
“ repairing Baltimore Light Infantry Armory.....	2,500 00	2,497 94	2 06

For building an addition to Grammar School No. 21.....	4,000 00	3,931 87	68 13
“ building colored High and Grammar School, Saratoga street.....	12,000 00	186 38	11,813 62
“ building Northeast Market Shed.....	9,000 00	8,995 75	4 25
“ “ new Primary School No. 8, Caroline street.....	9,000 00	9,000 00	.....
“ building horse stalls No. 7 Engine House.....	500 00	500 00	.....
“ building Market Master's House, Hanover Market.....	800 00	796 00	4 00
“ painting and repairing 5th Reg. Armory.....	1,000 00	990 98	9 02
“ Criminal Court repairs.....	3,200 00	3,197 35	2 65
“ laundry at the Baltimore City Jail.....	4,500 00	4,500 00	.....
“ House of Refuge repairs.....	5,300 00	5,300 00	.....
“ Centre Market, between Lombard and Pratt streets.....	2,800 00	2,789 37	10 63
“ re-carpeting and furnishing the Orphans' Court.....	700 00	700 00	.....
“ re-paving Hanover Fish Market.....	2,525 00	2,525 00	.....
“ re-paving Lexington Fish Market.....	2,000 00	1,924 50	75 50
“ Observatory, Federal Hill.....	3,000 00	2,997 10	2 90
“ New Truck House No. 5.....	4,000 00	3,983 30	16 70
Total.....	\$127,300 00	\$104,858 97	\$22,441 03

TABLE B.

Showing the revenues of this office for the year 1887.

Permits issued as follows :		
For 10 bay-windows from the		
ground.....	\$1,000 00	
“ 63 bay-windows at upper		
stories.....	630 00	
“ 985 frame sheds.....	2,058 97	
“ 126 additions to sheds....	155 64	
“ old materials.....	156 00	
		\$4,000 61
Amount received for advertising		
applications	2,025 00	
Paid for same.....	1,132 52	
		892 48
Net revenue.....		\$4,893 09

TABLE C.

Showing the amount required for this office for the year 1888.

For the repairs of City Property :		
For Engine Houses.....	\$7,000 00	
“ City Jail.....	3,000 00	
“ Re-slatng roof at Jail.....	2,800 00	
“ City Hall.....	3,500 00	
“ Market Houses.....	3,000 00	
“ Court Houses.....	2,500 00	
“ Dog Pound and other property	500 00	
		\$22,300 00
For the repairs of Public Schools.		
For repairs.....	\$10,000 00	
“ painting schools.....	5,000 00	
“ draining wells.....	4,000 00	
“ new water closet at No. 6		
Division St.....	1,300 00	
“ grading and paving alley,		
building partition at No. 8,		
and building retaining wall		
in rear of No. 8 Grammar		
and No. 30 Primary Schools		
Hollins St. near Fulton...	900 00	
Amount carried over		\$21,200 00 \$22,300 00

Amount brought forward	\$21,120 00	\$22,300 00
For substituting wood for plaster ceilings of		
public school houses.....	3,000 00	
“ emptying cess-pools.....	2,000 00	
“ incidentals.....	100 00	
“ livery of two horses and repairs to wagons	600 00	
“ salaries.....	5,500 00	
“ completion of No. 14 Engine House....	9,700 00	
“ “ Col'd High and Grammar		
School.....	25,000 00	
“ completion of No. 8 Primary School...	9,000 00	
Balance due on No. 21 Grammar School..	4,068 13	
Balance due on No. 6 New Truck House,		
Hanover and Ostend Sts.....	1,907 19	
Total.....	\$104,375 32	





ANNUAL REPORT

OF THE

Department of Street Cleaning

OF THE

CITY OF BALTIMORE,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1887.



OFFICERS AND EMPLOYEES

— OF THE —

Department of Street Cleaning,

FOR THE YEAR 1897.

B. E. SMITH,

Commissioner of Street Cleaning.

FRANK DANDELET,

Clerk.

Superintendents of Streets :

B. V. KELLY, *1st District.* JAS. F. BUSEY, *4th District.*

G. E. MCCAULEY, *2d District.* H. LANCASTER, *5th District.*

MICHAEL FADGEN, *3d District.* JOHN MEAGHER, *6th District.*

Superintendents of Dumps.

JOHN HOLDEFER, *Canton.* LOUIS E. FEFEL, *Spring Garden.*

F. P. QUINN, *Back Basin.* J. T. CROPPER, *Eager Street.*

ALFRED FREEDY, *South Baltimore.*

REPORT.

DEPARTMENT OF STREET CLEANING—CITY HALL,

BALTIMORE, January 1, 1888.

To the Honorable the Mayor

and City Council of Baltimore :

GENTLEMEN :

I have the honor to submit herewith the report of the Street Cleaning Department, in conformity with the provisions of Ordinance No. 6, approved February 11, 1882.

The annexed tables show the number of men employed, the work performed, the money expended, and the amount received for refuse, &c. during the year, by this Department.

The appropriation for the year, having been the amounts estimated for the cleaning of the streets and alleys, and the collection of garbage, the work has been regularly performed. While the garbage collection is somewhat improved, as the regulations become better understood, a decided improvement in the service would

be effected by the passage of an ordinance providing that the garbage collection should be made only by the owner of the horse and cart employed for the purpose.

Experience compels me to again make the suggestion made in former years, that the authority to employ the men for the service should be vested in the Commissioner, to secure the more efficient performance of the work.

The cleaning of snow from the principal thoroughfares and market houses has been done as promptly as the means would allow ; to secure more rapid and thorough performance of this work, I would respectfully ask that an appropriation be made for this purpose, to be used only with the approbation of the Mayor. Five thousand dollars, I think, would be sufficient for the purpose, which sum I include in the estimate of expense of the Department.

After the proper advertisement for bids, according to the provisions of the ordinance approved May 25, 1882, for the removal of garbage and sale of street dirt, a contract was entered into with Matthew W. Adams for said removal, for the sum of nine thousand dollars for one year, and eight thousand dollars for the second year ; and with Edward T. Clifford, for the purchase of the street dirt of the first and third districts, for six hundred dollars ; M. B. Gump, for the fourth district, for two hundred and fifty dollars ; Charles Lancaster, for the fifth district, for four hundred dollars ; Herman Cook, for the sixth district, for one hundred and twenty-five dollars. No contract was made for the first dis-

trict. No provision has been made for the payment of the removal of garbage for the first six months due December 31, 1887.

By reference to table B, it will be seen that your Commissioner has realized from the sale of refuse, &c., during the year, and turned over to the Comptroller, fifteen hundred and sixty-three dollars and five cents (\$1,563.05).

In conclusion, I return thanks to the superintendents for their earnest co-operation, and also to the men employed.

The following is an estimate of expenses for the Department for the year 1888 :

134 Garbage carts and men	\$125,424 00
56 Street carts and men	52,416 00
120 Sweepers and scrapers	62,400 00
Contract for removal of garbage, &c.	9,000 00
Salaries	9,000 00
Dumps	4,500 00
Tools and incidentals	1,850 00
	\$264,590 00
Removal of snow	5,000 00
	\$269,590 00

Respectfully submitted,

B. E. SMITH,

Commissioner of Street Cleaning.



TABLES.

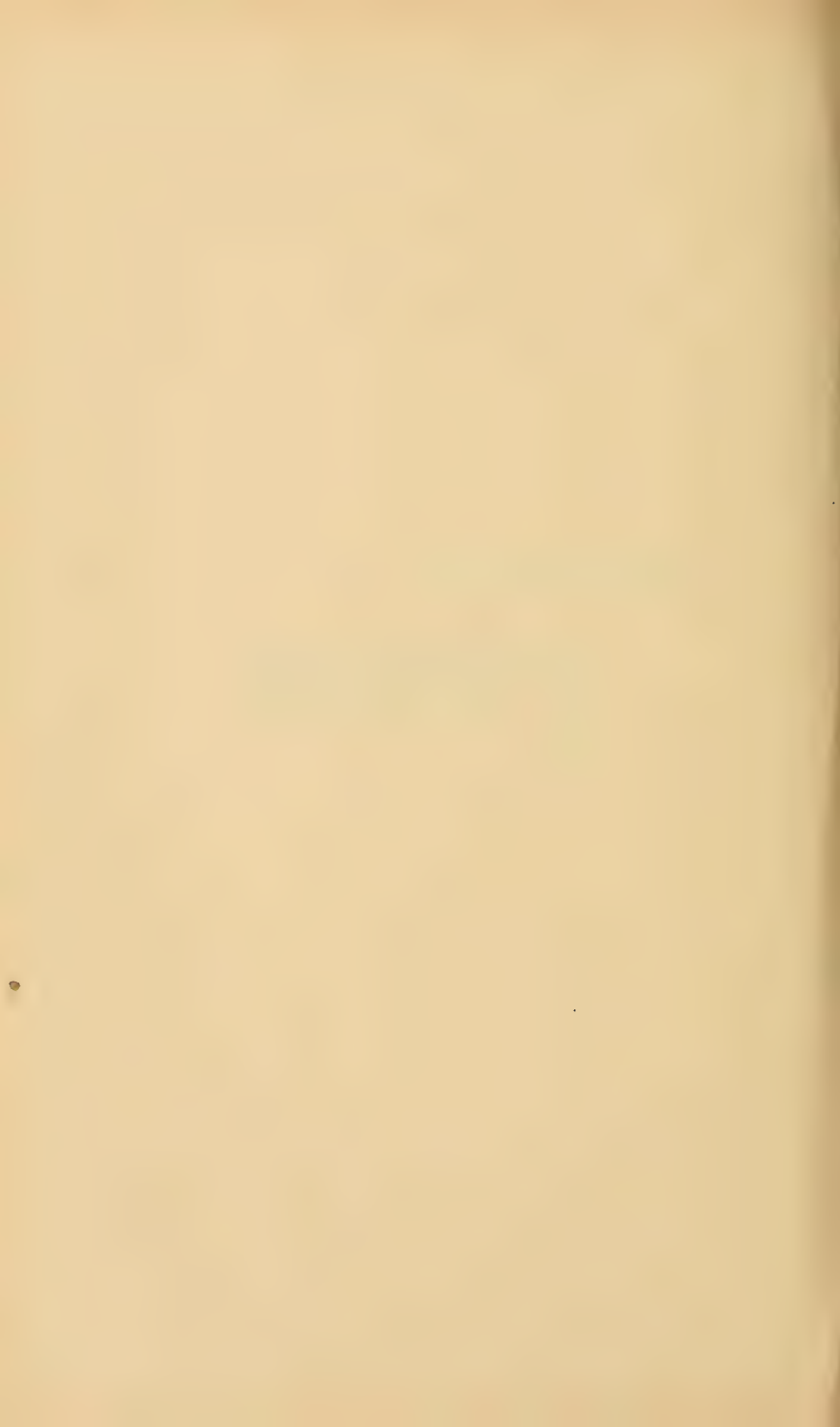


TABLE A.

Weekly Report showing amount of work done in the Street Cleaning Department, the number of men and carts employed in the several Districts, and amount of money expended for the same, from Jan. 1 to Dec. 31, 1887.

FIRST DISTRICT.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending Jan. 3.....	653	1168	\$306 00	\$390 66	17	8	25	1821	\$696 66
" " 10.....	668	1248	306 00	364 00	17	8	22	1916	670 00
" " 17.....	687	1338	306 00	364 00	17	8	22	2025	670 00
" " 24.....	648	1444	306 00	364 00	17	8	22	2092	670 00
" " 31.....	715	968	306 00	362 33	17	8	22	1683	668 33
	3371	6166	\$1530 00	\$1844 99	85	40	113	9537	\$3374 99
Week ending Feb. 7.....	751	912	\$306 00	\$361 50	17	8	22	1663	\$667 50
" " 14.....	682	720	306 00	359 00	17	8	22	1402	665 00
" " 21.....	683	1000	306 00	359 00	17	8	22	1683	665 00
" " 28.....	678	760	306 00	365 03	17	8	22	1438	671 03
	2794	3392	\$1224 00	\$1444 53	68	32	88	6186	\$2668 53

B. V. KELLY, SUR'T.

TABLE A.—Continued.

FIRST DISTRICT.	Garbage and Ashes Removed.	Street Dirt, Sand, &c. Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
B. V. KELLY, Sup't.	Week ending March 7.....	685	\$306 00	\$342 33	17	8	22	1390	\$648 33
	" " 14.....	709	306 00	354 00	17	8	22	1469	660 00
	" " 21.....	756	306 00	359 00	17	8	22	1476	665 00
	" " 28.....	707	306 00	356 50	17	8	22	1467	662 50
		2857	\$1224 00	\$1411 83	68	32	88	5802	\$2635 83
Week ending April 4.....	718	810	\$306 00	\$349 50	17	8	22	1528	\$655 50
	" " 11.....	774	306 00	355 66	17	8	22	1494	661 66
	" " 18.....	646	306 00	374 00	17	8	23	1366	680 00
	" " 25.....	708	324 00	364 00	18	8	23	1428	688 00
		2846	\$1242 00	\$1443 16	69	32	90	5816	\$2685 16

Week ending May 2.....	719	760	\$324 00	\$364 83	18	8	23	1479	\$688 83
" " 9.....	734	800	324 00	374 00	18	8	23	1534	698 00
" " 16.....	695	760	324 00	364 00	18	8	23	1455	688 00
" " 23.....	726	760	324 00	374 00	18	8	23	1486	698 00
" " 30.....	736	760	324 00	374 00	18	8	23	1496	698 00
	3610	3840	\$1620 00	\$1850 83	90	40	115	7450	\$3470 83
Week ending June 6....	740	400	\$324 00	\$363 16	18	8	23	1140	\$687 16
" " 13.....	706	790	324 00	363 16	18	8	23	1496	687 16
" " 20.....	764	760	324 00	374 00	18	8	23	1524	698 00
" " 27.....	771	760	324 00	366 50	18	8	23	1531	690 50
	2981	2710	\$1296 00	\$1466 82	72	32	92	5691	\$2762 82
Week ending July 4	790	760	\$324 00	\$374 00	18	8	23	1550	\$698 00
" " 11.....	754	760	324 00	367 33	18	8	23	1514	691 33
" " 18.....	729	760	324 00	374 00	18	8	23	1489	698 00
" " 25.....	764	760	324 00	370 66	18	8	23	1524	694 66
	3037	3040	\$1296 00	\$1485 99	72	32	92	6077	\$2781 99

TABLE A.—Continued.

FIRST DISTRICT.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
B. V. KELLY, SUPT.	740	760	\$324 00	\$374 00	18	8	23	1500	\$698 00
	755	760	324 00	372 33	18	8	23	1515	696 33
	725	760	324 00	374 00	18	8	23	1485	698 00
	818	720	324 00	336 83	18	8	23	1538	660 83
	721	760	324 00	374 00	18	8	23	1481	698 00
	3759	3760	\$1620 00	\$1831 16	90	40	115	7519	\$3451 16
Week ending Sept. 5.....	735	760	\$324 00	\$371 50	18	8	23	1495	\$695 50
	654	760	324 00	374 00	18	8	23	1414	698 00
	785	760	324 00	373 16	18	8	23	1545	697 16
	763	760	324 00	368 16	18	8	23	1523	692 16
	2937	3040	\$1296 00	\$1486 82	72	32	92	5977	\$2782 82

Week ending Oct. 3.....	746	685	\$324 00	\$320 16	18	8	23	1431	\$644 16
“ “ 10.....	730	760	324 00	374 00	18	8	23	1490	698 00
“ “ 17.....	718	760	324 00	374 00	18	8	23	1478	698 00
“ “ 24.....	742	760	324 00	374 00	18	8	23	1502	698 00
“ “ 31.....	771	760	324 00	374 00	18	8	23	1531	698 00
	3707	3725	\$1620 00	\$1816 16	90	40	115	7432	\$3436 16
Week ending Nov. 7.....	736	760	\$324 00	\$374 00	18	8	23	1496	\$698 00
“ “ 14.....	774	760	324 00	374 00	18	8	23	1534	698 00
“ “ 21.....	755	760	324 00	374 00	18	8	23	1515	698 00
“ “ 28.....	829	760	324 00	369 83	18	8	23	1589	693 83
	3094	3040	\$1296 00	\$1491 83	72	32	92	6134	\$2787 83
Week ending Dec. 5.....	803	760	\$324 00	\$364 00	18	8	23	1563	\$688 00
“ “ 12.....	801	760	324 00	374 00	18	8	23	1561	698 00
“ “ 19.....	807	665	324 00	324 16	18	8	23	1472	648 16
“ “ 26.....	735	2352	324 00	637 33	18	8	23	3087	961 33
“ “ 31.....	665	1016	324 00	283 33	18	8	23	1681	607 33
	3811	5553	\$1620 00	\$1982 82	90	40	115	9364	\$3602 82

TABLE A.—Continued.

SECOND DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Geo. E. McCAULEY, Sup'r.										
Week ending Jan. 4.....		638	468	\$414 00	\$228 59	23	9	18	1106	\$642 59
" " 11.....		616	744	411 00	297 82	23	9	17	1360	708 82
" " 18.....		654	828	414 00	317 76	23	9	17	1482	731 76
" " 25.....		596	864	411 00	332 00	23	9	17	1460	743 00
		2504	2904	\$1650 00	\$1176 17	92	36	69	5408	\$2826 17
Week ending Feb. 1.....		603	736	\$414 00	\$286 36	23	9	17	1339	\$700 36
" " 8.....		601	832	411 00	324 34	23	9	17	1433	735 34
" " 15.....		600	864	414 00	332 00	23	9	17	1464	746 00
" " 22.....		587	784	414 00	297 84	23	9	17	1371	711 84
		2391	3216	\$1653 00	\$1240 54	92	36	68	5607	\$2893 54

Week ending March 1.....	584	800	\$414 00	\$310 82	23	9	17	1384	\$724 82
" " 8.....	564	702	414 00	288 38	23	9	18	1266	702 38
" " 15.....	603	848	414 00	334 01	23	9	18	1451	748 01
" " 22.....	611	864	414 00	335 33	23	9	18	1475	149 38
" " 29.....	608	848	414 00	316 51	23	9	18	1456	730 51
	2970	4062	\$2070 00	\$1585 05	115	45	89	7032	\$3655 05
Week ending April 5.....	609	776	\$414 00	\$330 47	23	9	18	1385	\$714 47
" " 12.....	606	864	414 00	327 83	23	9	18	1470	741 83
" " 19.....	597	864	432 00	337 83	24	9	18	1461	769 83
" " 26.....	641	792	432 00	294 32	24	9	18	1433	726 32
	2453	3296	\$1692 00	\$1260 45	94	36	72	5749	\$2952 45
Week ending May 3.....	587	864	\$432 00	\$331 99	24	9	18	1451	\$763 99
" " 10.....	604	864	429 00	330 32	24	9	18	1468	759 32
" " 17.....	600	840	432 00	329 14	24	9	18	1440	761 14
" " 24.....	568	864	432 00	334 50	24	9	18	1432	766 50
" " 31.....	512	864	432 00	341 17	24	9	18	1376	773 17
	2871	4296	\$2157 00	\$1607 12	120	45	90	7167	\$3824 12

TABLE A.—Continued.

SECOND DISTRICT. — GEO. E. MCCAULEY, SUP'T.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending June 7.....	501	864	\$432 00	\$327 82	24	9	18	1365	\$759 82
" " 14.....	485	768	432 00	295 62	24	9	18	1253	727 62
" " 21.....	450	864	432 00	332 83	24	9	18	1314	764 83
" " 28.....	470	864	432 00	339 50	24	9	18	1334	771 50
	1906	3360	\$1728 00	\$1295 77	96	36	72	5266	\$3023 77
Week ending July 5.....	454	864	\$432 00	\$340 33	24	9	18	1318	\$772 33
" " 12.....	437	864	432 00	327 81	24	9	18	1301	759 81
" " 19.....	430	864	432 00	335 33	24	9	18	1294	767 33
" " 26.....	445	864	432 00	332 83	24	9	18	1309	764 83
	1766	3456	\$1728 00	\$1336 30	96	36	72	5222	\$3064 30

Week ending August 2.									
"	439	864	\$432 00	\$336 16	24	9	18	1303	\$768 16
"	535	856	432 00	332 99	24	9	18	1391	764 99
"	555	864	432 00	334 48	24	9	18	1419	757 48
"	551	840	432 00	329 99	24	9	18	1391	761 99
"	556	864	429 00	340 33	24	9	18	1420	769 33
	2636	4288	\$2148 00	\$1673 95	120	45	90	6924	\$3821 95
Week ending Sept. 6.									
"	525	864	\$432 00	\$338 67	24	9	18	1389	\$770 67
"	500	864	432 00	340 33	24	9	18	1364	772 33
"	462	806	432 00	324 65	24	9	18	1268	756 65
"	438	864	432 00	340 33	24	9	18	1302	772 33
	1925	3398	\$1728 00	\$1343 98	96	36	72	5323	\$3071 98
Week ending Oct. 4.									
"	408	736	\$432 00	\$275 48	24	9	18	1204	\$707 48
"	437	864	432 00	337 83	24	9	18	1301	769 83
"	427	864	432 00	337 00	24	9	18	1291	769 00
"	422	864	432 00	340 34	24	9	18	1286	772 34
	1754	3328	\$1728 00	\$1290 65	96	36	72	5082	\$3018 65

TABLE A.—Continued.

SECOND DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
—										
GEO. E. MCCAULEY, SUP'T.										
Week ending Nov. 1.....		458	864	\$432 00	\$347 00	24	9	18	1322	\$779 00
" " 7.....		395	864	432 00	341 17	24	9	18	1259	773 17
" " 15.....		451	848	432 00	334 82	24	9	18	1299	766 82
" " 22.....		513	848	432 00	328 15	24	9	18	1361	760 15
" " 29.....		550	864	432 00	342 00	24	9	18	1414	774 00
		2367	4288	\$2160 00	\$1693 14	120	45	90	6655	\$3853 14
Week ending Dec. 6.....		575	864	\$432 00	\$336 16	24	9	18	1439	\$768 16
" " 13.....		623	832	432 00	324 31	24	9	18	1455	756 31
" " 20.....		606	864	432 00	336 16	24	9	18	1470	768 16
" " 27.....		613	856	432 00	417 15	24	9	18	1469	849 15
		2417	3416	1728 00	1413 78	96	36	72	5833	\$3141 78

THIRD DISTRICT.

MICHAEL FADGEN, Sup't.

Week ending Jan. 5.....	672	1110	\$252 00	\$393 50	14	11	25	1782	\$645 50
" " 12.....	672	1111	252 00	398 34	14	11	21	1783	650 34
" " 19.....	672	1067	252 00	408 00	14	11	21	1739	660 00
" " 26.....	672	1012	252 00	398 50	14	11	21	1684	650 50
	2688	4300	\$1008 00	\$1598 34	56	44	88	6988	\$2606 34
Week ending Feb. 2.....	672	1023	\$252 00	\$408 00	14	11	21	1695	\$660 00
" " 9.....	672	979	252 00	403 83	14	11	21	1651	655 83
" " 16.....	672	858	252 00	407 17	14	11	21	1530	659 17
" " 23.....	672	814	252 00	395 17	14	11	21	1486	647 17
	2683	3674	\$1008 00	\$1614 17	56	44	84	6362	\$2632 17
Week ending March 2.....	672	880	\$252 00	\$375 20	14	11	21	1552	\$627 20
" " 9.....	672	704	252 00	371 16	14	11	21	1376	623 16
" " 16.....	672	748	252 00	403 83	14	11	21	1420	655 83
" " 23.....	672	792	252 00	393 83	14	11	21	1464	645 83
" " 30....	672	715	252 00	395 83	14	11	21	1387	647 83
	3360	3839	\$1260 00	\$1939 85	70	55	105	7199	\$3199 85

TABLE A.—Continued.

THIRD DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
MICHAEL FADGEN, SUP'T.										
Week ending April 6.....		672	759	\$252 00	\$399 00	14	11	21	1431	\$651 00
" " 13.....		644	693	252 00	406 34	14	11	21	1337	658 34
" " 20.....		602	737	252 00	391 33	14	11	21	1339	643 33
" " 27.....		630	693	252 00	395 00	14	11	21	1323	647 00
		2548	2882	\$1008 00	\$1591 67	56	44	84	5430	\$2599 67
Week ending May 4.....		603	753	\$252 00	\$396 66	14	11	21	1361	\$648 66
" " 11.....		656	725	252 00	397 33	14	11	21	1381	649 33
" " 18.....		630	737	252 00	408 00	14	11	21	1367	660 00
" " 25.....		644	715	252 00	408 00	14	11	21	1359	660 00
		2558	2930	\$1008 00	\$1609 99	56	44	84	5468	\$2617 99

Week ending June 1.....	644	748	\$252 00	\$403 00	14	11	21	1392	\$655 00
" " 8.....	644	651	252 00	375 50	14	11	21	1295	627 50
" " 15.....	644	734	252 00	401 83	14	11	21	1378	653 83
" " 22.....	644	737	252 00	408 00	14	11	21	1381	660 00
" " 29.....	644	737	252 00	408 00	14	11	21	1381	660 00
	3220	3607	\$1260 00	\$1995 83	70	55	105	6827	\$3255 83
Week ending July 6.....	644	847	\$252 00	\$418 00	14	11	22	1491	\$670 00
" " 13.....	644	704	252 00	398 50	14	11	22	1348	650 50
" " 20.....	644	704	252 00	413 00	14	11	22	1348	665 00
" " 27.....	644	704	252 00	395 83	14	11	22	1348	647 83
	2576	2959	\$1008 00	\$1625 33	56	44	88	5535	\$2633 33
Week ending August 3.....	644	704	\$252 00	\$411 33	14	11	22	1348	\$663 33
" " 10.....	644	759	252 00	406 50	14	11	22	1403	658 50
" " 17.....	644	693	252 00	387 00	14	11	22	1337	639 00
" " 24.....	644	726	252 00	398 50	14	11	22	1370	650 50
" " 31.....	644	726	252 00	417 16	14	11	22	1370	669 16
	3220	3608	\$1260 00	\$2020 49	70	55	110	6828	\$3280 49

TABLE A.—Continued.

THIRD DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
MICHAEL FADGEN, SUP'T.										
Week ending Sept. 7.....		644	726	\$252 00	\$417 23	14	11	22	1370	\$669 23
" " 14.....		644	693	252 00	408 34	14	11	22	1337	660 34
" " 21.....		644	704	252 00	410 00	14	11	22	1348	662 00
" " 28.....		630	748	252 00	422 16	14	11	23	1378	674 16
		2562	2871	\$1008 00	\$1657 73	56	44	89	5433	\$2665 73
Week ending October 5.....		644	627	\$252 00	\$398 00	14	11	23	1271	\$650 00
" " 12.....		658	748	252 00	424 66	14	11	23	1406	676 66
" " 19.....		672	682	252 00	422 17	14	11	23	1354	674 17
" " 26.....		672	726	252 00	423 00	14	11	23	1398	675 00
		2646	2783	\$1008 00	\$1667 83	56	44	92	5429	\$2675 83

Week ending November 2...	403	649	\$252 00	\$397 50	14	11	23	1051	\$649 50
" " 9...	672	726	252 00	428 00	14	11	23	1398	680 00
" " 16...	672	726	252 00	419 83	14	11	23	1398	671 83
" " 23...	672	726	252 00	421 50	14	11	23	1398	673 50
" " 30...	672	748	252 00	419 17	14	11	23	1420	671 17
	3090	3575	\$1200 00	\$2086 00	70	55	115	6665	\$3346 00
Week ending Dec. 7.....	672	659	\$252 00	\$425 50	14	11	23	1331	\$677 50
" " 14.....	672	759	252 00	432 16	14	11	24	1431	684 16
" " 21.....	672	1111	252 00	536 00	14	11	24	1783	788 00
" " 28.....	672	1166	252 00	503 00	14	11	24	1838	755 00
	2688	3695	\$1008 00	\$1896 66	56	44	95	6383	\$2904 66

TABLE A.—Continued.

FOURTH DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures
JAS. F. BUSEY, SUP'T.										
Week ending Jan. 6.		1240	1045	\$468 00	\$354 75	26	9	23	2285	\$822 75
" " 13.		1253	1260	468 00	389 00	26	9	23	2513	857 00
" " 20.		1243	1262	468 00	387 00	26	9	23	2505	855 00
" " 27.		1106	1162	468 00	386 48	26	9	23	2268	854 48
		4842	4729	\$1872 00	\$1517 23	104	36	92	9571	\$3389 23
Week ending Feb. 3.		1143	1175	\$468 00	\$386 33	26	9	23	2318	\$854 33
" " 10.		1163	1097	468 00	353 22	26	9	23	2260	821 22
" " 17.		1103	1168	468 00	355 21	26	9	23	2271	823 21
" " 24.		1153	1197	468 00	390 33	26	9	23	2350	858 33
		4562	4637	\$1872 00	\$1485 09	104	36	92	9199	\$3357 09

Week ending Mar. 3.....	1223	1077	\$468 00	\$321 91	26	9	23	2300	\$789 91
	" 10.....	1169	468 00	357 60	26	9	23	2332	825 60
	" 17.....	1162	468 00	392 00	26	9	23	2405	860 00
	" 24.....	1177	468 00	388 16	26	9	23	2423	856 16
	" 31.....	1119	468 00	388 82	26	9	23	2362	856 82
	6118	5704	\$2340 00	\$1848 49	130	45	115	11822	\$4188 49
Week ending April 7.....	1238	1192	\$468 00	\$378 47	26	9	23	2430	\$846 47
	1240	1214	468 00	392 00	26	9	23	2454	860 00
	1263	1103	468 00	356 48	26	8	23	2366	824 48
	1243	1108	468 00	385 66	26	9	23	2351	853 66
	4984	4617	\$1872 00	\$1512 61	104	35	92	9601	\$3384 61
Week ending May 5... ..	1243	1170	\$468 00	\$392 00	26	9	23	2413	\$860 00
	1341	1089	468 00	339 26	26	9	23	2430	807 26
	1336	1233	468 00	392 00	26	9	23	2569	860 00
	1353	1204	468 00	392 00	26	9	23	2557	860 00
	5273	4696	\$1872 00	\$1515 26	104	36	92	9969	\$3387 26

TABLE A.—Continued.

FOURTH DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c. Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
—										
JAS. F. BUSEY, SUP'T.										
Week ending June 2.....		1339	1212	\$468 00	\$392 00	26	9	23	2551	\$860 00
" " 9.....		1337	1074	468 00	293 36	26	9	23	2411	761 36
" " 16.....		1385	1190	468 00	392 00	26	9	23	2575	860 00
" " 23.....		1359	1204	468 00	392 00	26	9	23	2563	860 00
" " 30.....		1352	1208	468 00	392 00	26	9	32	2560	860 00
		6772	5888	\$2340 00	\$1861 36	130	45	115	12660	\$4201 36
Week ending July 7.....		1370	1184	\$468 00	\$364 25	26	9	23	2554	\$832 25
" " 14.....		1428	1188	468 00	392 00	26	9	23	2616	860 00
" " 21.....		1428	1189	468 00	402 00	26	9	24	2617	870 00
" " 28.....		1465	1188	453 00	395 32	26	9	23	2653	848 32
		5691	4749	\$1857 00	\$1553 57	104	36	93	10440	\$3410 57

Week ending Aug. 4.....	1458	1188	\$468 00	\$392 00	26	9	23	2646	\$860 00
" " 11.....	1590	1196	468 00	392 00	26	9	23	2786	860 00
" " 18.....	1405	1099	468 00	328 40	26	9	23	2504	796 40
" " 25.....	1440	1092	456 00	392 00	26	9	23	2532	848 00
	5893	4575	\$1860 00	\$1504 40	104	36	92	10468	\$3364 40
Week ending Sept. 1.....	1447	1189	\$450 00	\$392 00	25	9	23	2636	\$842 00
" " 8.....	1447	1180	468 00	392 00	26	9	23	2627	860 00
" " 15.....	1429	1065	468 00	346 11	26	9	23	2494	814 11
" " 22.....	1381	1180	468 00	392 00	26	9	23	2561	860 00
" " 29.....	1390	1180	453 00	392 00	26	9	23	2570	845 00
	7094	5794	\$2307 00	\$1914 11	129	45	115	12888	\$4221 11
Week ending Oct. 6.....	1355	1165	\$468 00	\$335 60	26	9	23	2520	\$803 60
" " 13.....	1313	1165	468 00	354 81	26	9	23	2478	852 81
" " 20.....	1305	1160	468 00	392 00	26	9	23	2465	860 00
" " 27.....	1305	1160	468 00	392 00	26	9	23	2465	860 00
	5278	4650	\$1872 00	\$1504 41	104	36	92	9928	\$3376 41

TABLE A.—Continued.

FOURTH DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c. Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
JAS. F. BUSEY, Sup't.		Week ending Nov. 3.....	1288	\$468 00	\$392 00	26	9	23	2468	\$860 00
		" " 10.....	1305	468 00	392 00	26	9	23	2470	860 00
		" " 17.....	1280	468 00	388 82	26	9	23	2325	856 82
		" " 23.....	1300	468 00	398 66	26	9	24	2360	866 66
			5173	\$1872 00	\$1571 48	104	36	93	9623	\$3443 48
Week ending Dec. 1.....		1206	1165	\$468 00	\$349 60	26	9	24	2371	\$817 60
		1138	1078	468 00	393 96	26	9	24	2216	861 96
		1244	1193	468 00	396 48	26	9	24	2437	864 48
		1238	1500	468 00	501 21	26	9	24	2738	969 21
		1243	1160	468 00	402 00	26	9	24	2403	870 00
		6069	6096	\$2340 00	\$2043 25	130	45	120	12165	\$4383 25

FIFTH DISTRICT.

H. LANCASTER, SUP'T.

Week ending Jan. 7.....	876	722	\$414 00	\$317 00	23	10	20	1598	\$731 00
" " 14.....	870	904	414 00	370 00	23	10	19	1774	784 00
" " 21.....	899	732	411 00	365 00	23	10	19	1631	776 00
" " 28.....	885	702	411 00	355 00	23	10	19	1587	766 00
	3530	3060	\$1650 00	\$1407 00	92	40	77	6590	\$3057 00
Week ending Feb. 4.....	893	670	\$411 00	\$363 67	23	10	19	1563	\$777 67
" " 11.....	873	723	414 00	370 00	23	10	19	1596	784 00
" " 18.....	872	723	414 00	370 00	23	10	19	1595	784 00
" " 25.....	783	726	414 00	369 16	23	10	19	1509	783 16
	3421	2842	\$1653 00	\$1475 83	92	40	76	6263	\$3128 83
Week ending March 4.....	792	727	\$414 00	\$286 50	23	10	19	1519	\$700 50
" " 11.....	803	805	414 00	372 70	23	10	19	1608	786 70
" " 18.....	786	687	414 00	350 00	23	10	19	1473	764 00
" " 25.....	810	737	414 00	370 00	23	10	19	1537	784 00
	3191	2946	\$1656 00	\$1379 20	92	40	76	6137	\$3035 20

TABLE A.—Continued.

FIFTH DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
H. LANCASTER, SUP'T.										
Week ending April 1.....		784	730	\$414 00	\$341 00	23	10	19	1514	\$755 00
" " 8.....		789	672	414 00	360 00	23	10	19	1461	774 00
" " 15.....		736	746	414 00	360 00	23	10	19	1482	774 00
" " 22.....		712	713	414 00	370 00	23	10	19	1425	784 00
" " 29.....		767	774	450 00	370 00	25	10	19	1541	820 00
		3788	3635	\$2106 00	\$1801 00	117	50	95	7423	\$3907 00
Week ending May 6.....		748	746	\$450 00	\$364 50	25	10	19	1494	\$814 50
" " 13.....		753	743	450 00	317 83	25	10	19	1496	767 83
" " 20.....		774	753	450 00	370 00	25	10	19	1527	820 00
" " 27.....		726	674	450 00	370 00	25	10	19	1400	820 00
		3001	2916	\$1800 00	\$1422 33	100	40	76	5917	\$3222 33

Week ending June 3.....	748	753	\$450 00	\$370 00	25	10	19	1501	\$820 00
" " 10.....	708	732	450 00	370 00	25	10	19	1440	820 00
" " 17.....	674	656	450 00	370 00	25	10	19	1330	820 00
" " 24.....	634	754	450 00	370 00	25	10	19	1388	820 00
	2764	2895	\$1800 00	\$1480 00	100	40	76	5659	\$3280 00
Week ending July 1.....	660	743	\$450 00	\$370 00	25	10	19	1403	\$820 00
" " 8.....	643	746	450 00	370 00	25	10	19	1389	820 00
" " 15.....	623	698	450 00	370 00	25	10	19	1321	820 00
" " 22.....	618	733	450 00	370 00	25	10	19	1351	820 00
" " 29.....	635	1118	450 00	370 00	25	10	19	1753	820 00
	3179	4038	\$2250 00	\$1850 00	125	50	95	7217	\$4100 00
Week ending August 5.....	638	953	\$450 00	\$370 00	25	10	19	1591	\$820 00
" " 12.....	645	673	447 00	370 00	25	10	19	1318	817 00
" " 19.....	643	758	450 00	377 00	25	10	20	1401	827 00
" " 26.....	637	715	450 00	380 00	25	10	20	1352	830 00
	2563	3099	\$1797 00	\$1497 00	100	40	78	5662	\$3294 00

TABLE A.—Continued.

FIFTH DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
H. LANCASTER, Sup't.										
Week ending Sept. 2.....		643	697	\$450 00	\$380 00	25	10	20	1340	\$830 00
" " 9.....		640	672	450 00	380 00	25	10	20	1312	830 00
" " 16.....		640	707	447 00	347 00	25	10	20	1347	794 00
" " 23.....		660	710	447 00	380 00	25	10	20	1370	827 00
" " 30.....		646	776	450 00	380 00	25	10	20	1422	830 00
		3229	3562	\$2244 00	\$1867 00	125	50	100	6791	\$4111 00
Week ending October 7.....		676	694	\$450 00	\$377 00	25	10	20	1370	\$827 00
" " 14.....		688	847	450 00	380 00	25	10	20	1535	830 00
" " 21.....		669	767	450 00	380 00	25	10	20	1436	830 00
" " 28.....		676	712	450 00	377 00	25	10	20	1388	827 00
		2709	3020	\$1800 00	\$1514 00	100	40	80	5729	\$3314 00

Week ending Nov. 4.....									
"	712	776	\$450 00	\$380 00	25	10	20	1488	\$830 00
"	650	771	450 00	377 00	25	10	20	1421	827 00
"	723	694	450 00	377 00	25	10	20	1417	827 00
"	731	671	450 00	380 00	25	10	20	1402	830 00
	2816	2912	\$1800 00	\$1514 00	100	40	80	5728	\$3314 00
Week ending Dec. 2.....									
"	835	933	\$450 00	\$368 33	25	10	20	1768	\$813 33
"	781	843	450 00	380 00	25	10	20	1624	830 00
"	787	1076	450 00	380 00	25	10	20	1863	830 00
"	796	2009	450 00	493 33	25	10	20	2805	943 33
"	810	1001	441 00	364 83	25	10	20	1811	805 83
	4009	5862	\$2241 00	\$1986 49	125	50	100	9871	\$4227 49

TABLE A.—Continued.

SIXTH DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
CHAS. G. WATERS, SUP'T.										
Week ending Jan. 1..	.....	998	770	\$486 00	\$266 86	27	9	21	1768	\$752 86
" " 8..	.....	978	900	486 00	325 06	27	9	19	1878	811 06
" " 15..	.....	1007	1170	486 00	352 00	27	9	19	2177	838 00
" " 22..	.....	1034	1170	486 00	352 00	27	9	19	2204	838 00
" " 29..	.....	1054	1086	486 00	326 64	27	9	19	2140	812 64
		5071	5096	\$2430 00	\$1622 06	135	45	97	10167	\$4052 06
Week ending Feb. 5..		1063	1170	\$486 00	\$352 00	27	9	19	2233	\$838 06
" " 12..	.....	1088	1215	486 00	357 20	27	9	19	2303	843 00
" " 19..	.....	1106	1215	486 00	352 00	27	9	19	2321	838 20
" " 26..	.....	1103	1170	486 00	352 00	27	9	19	2273	838 00
		4360	4770	\$1944 00	\$1413 20	108	36	76	9130	\$3357 20

SIXTH DISTRICT.

JOHN MEAGHER, SUP'T.

Week ending March 5.....	1018	376	\$486 00	\$331 34	27	9	21	1394	\$817 34
" " 12.....	1043	392	486 00	317 56	27	9	20	1435	803 56
" " 19.....	1013	448	486 00	343 05	27	10	20	1461	829 05
" " 26.....	996	360	486 00	300 48	27	9	21	1356	786 48
	4070	1576	\$1944 00	\$1292 43	108	37	82	5646	\$3236 43
Week ending April 2.....	1024	394	\$486 00	\$327 72	27	9	20	1418	\$813 72
" " 9.....	1014	406	486 00	328 39	27	9	20	1420	814 39
" " 16.....	999	805	486 00	369 99	27	10	20	1804	855 99
" " 23.....	990	840	486 00	347 98	27	10	19	1830	833 98
" " 30.....	983	763	486 00	347 80	27	9	19	1746	833 80
	5010	3208	\$2430 00	\$1721 88	135	47	98	8218	\$4151 88
Week ending May 7.....	957	790	\$486 00	\$350 50	27	9	19	1747	\$836 50
" " 14.....	969	752	486 00	335 30	27	9	19	1721	821 30
" " 21.....	950	732	486 00	352 00	27	9	19	1682	838 00
" " 28.....	961	705	486 00	352 00	27	9	19	1666	838 00
	3837	2979	\$1944 00	\$1389 80	108	36	76	6816	\$3333 80

TABLE A.—Continued.

SIXTH DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
—										
JOHN MEAGHER, Sup't.										
Week ending June 4.....		910	664	\$486 00	\$352 00	27	9	19	1574	\$838 00
" " 11.....		895	584	486 00	318 94	27	9	19	1479	804 94
" " 18.....		894	669	486 00	352 00	27	9	19	1563	838 00
" " 25.....		867	666	486 00	346 99	27	9	19	1533	832 99
		3566	2583	\$1944 00	\$1369 93	108	36	76	6149	\$3313 93
Week ending July 2.....		866	670	\$486 00	\$352 00	27	9	19	1536	\$838 00
" " 9.....		872	611	486 00	327 97	27	9	19	1483	813 97
" " 16.....		834	669	486 00	352 00	27	9	19	1503	838 00
" " 23.....		831	661	486 00	352 00	27	9	19	1492	838 00
" " 30.....		844	656	486 00	330 66	27	8	19	1500	816 66
		4247	3267	\$2430 00	\$1714 63	135	44	95	7514	\$4144 63

Week ending August 6.....	845	689	\$486 00	\$352 00	27	9	19	1534	\$838 00
" " 13.....	873	689	486 00	352 00	27	9	19	1562	838 00
" " 20.....	849	701	486 00	325 62	27	9	19	1550	811 62
" " 27.....	847	677	486 00	347 83	27	9	19	1524	833 83
	3414	2756	\$1944 00	\$1377 45	108	36	76	6170	\$3321 45
Week ending Sept. 3.....	855	719	\$486 00	\$352 00	27	9	19	1574	\$838 00
" " 10.....	867	725	486 00	348 66	27	9	19	1592	834 66
" " 17.....	863	645	486 00	283 44	27	9	19	1508	774 44
" " 24.....	858	723	480 00	361 16	27	9	20	1581	841 16
	3443	2812	\$1938 00	\$1350 26	108	36	77	6255	\$3288 26
Week ending Oct. 1.....	867	663	\$477 00	\$300 78	27	9	20	1530	\$777 78
" " 8.....	887	713	486 00	345 33	27	9	20	1600	831 33
" " 15.....	884	711	486 00	357 33	27	9	20	1595	843 33
" " 22.....	904	726	486 00	360 50	27	9	20	1630	846 50
" " 29.....	925	675	486 00	353 65	27	9	20	1600	839 65
	4467	3488	\$2421 00	\$1717 59	135	45	100	7955	\$4138 59

TABLE A.—Continued.

SIXTH DISTRICT.		Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	Number of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
—										
JOHN MEAGHER, SUP'T.										
Week ending Nov. 5.....		922	730	\$486 00	\$351 98	27	9	20	1652	\$837 98
" " 12.....		922	720	486 00	362 00	27	9	20	1642	848 00
" " 19.....		935	738	486 00	343 66	27	9	20	1673	829 66
" " 26.....		948	742	486 00	358 16	27	9	20	1690	844 16
		3727	2930	\$1944 00	\$1415 80	108	36	80	6657	\$359 80
Week ending Dec. 3....		957	698	\$486 00	\$314 10	27	9	20	1655	\$800 10
" " 10.....		1017	744	486 00	361 16	27	9	20	1761	847 16
" " 17.....		982	682	486 00	326 96	27	9	20	1664	812 96
" " 24.....		1020	1008	486 00	457 19	27	9	20	2028	943 19
" " 31.....		1015	863	486 00	314 92	27	9	20	1883	800 92
		4991	4000	\$2430 00	\$1774 33	135	45	100	8991	\$4204 33

TABLE B.

Report of Work done in the Department of Street Cleaning, for each Month of the Year, ending December 31st, 1887, and amount expended for Dumps, Tools and Incidentals; also total amount of receipts for Refuse, &c.

MONTH ENDING	Total No. of Loads of Garbage collected and removed.	Total No. Loads Street Dirt, Sand, Snow, Ice, &c., col. and removed.	Cost of Collecting and Removing Garbage.	Cost of Collecting and Removing Street Dirt, Sand, Ice, Snow, &c.	Cost of the Several Dumps.	Expenditures for Tools, Incidentals, &c.	No. of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers employed.	Total Number of Loads of all kinds removed.	Total expenditures for work done in Street and Garbage Depart- ment.	Total amount of money received and paid to Comptroller.	M. W. Adams for re- moval of Garbage.
January	22,006	26,255	\$10,140 00	\$9,165 79	\$384 00	\$48 07	130	56	121	48,261	\$19,305 79	.....	\$4,125 00
February	20,216	22,541	9,354 00	8,673 36	380 66	165 45	130	56	121	42,747	18,027 36	.....	.....
March	22,566	21,072	10,494 00	9,456 85	386 00	160 36	130	56	123	43,638	19,950 85	.....	.....
April	21,629	20,608	10,350 00	9,330 77	398 00	99 87	131	56	123	42,237	19,680 77	\$506 20	2,062 50
May	21,130	21,657	10,401 00	9,455 33	392 68	518 59	134	56	123	42,787	19,856 33	.....	.....
June	21,209	21,043	10,368 00	9,469 71	380 66	242 29	134	56	123	42,252	19,837 71	.....	.....
July	20,496	21,509	10,569 00	9,565 82	394 66	78 47	134	56	124	42,005	20,134 82	.....	2,062 50
August	21,485	22,086	10,629 00	9,904 45	392 66	104 00	134	56	125	43,571	20,533 45	450 00	.....
September ...	21,190	21,477	10,521 00	9,619 90	398 00	115 35	134	56	125	42,667	20,140 90	.....	.....
October	20,561	20,994	10,449 00	9,510 64	380 66	139 13	134	56	127	41,555	19,959 64	490 00	.....
November ...	20,267	21,195	10,332 00	9,772 25	392 66	80 00	134	56	127	41,462	20,104 25	100 00	.....
December....	23,985	28,622	11,367 00	11,097 33	394 66	260 95	134	56	193	52,607	22,464 33	16 85	.....
Total	256,740	269,049	\$124,974 00	\$115,022 20	\$4,675 30	\$2,012 53	.....	.....	.....	525,789	\$239,996 20	\$1,563 05	\$8,250 00

TABLE C.
RECAPITULATION.

Total number of loads of garbage and ashes collected and removed, from January 1st to December 31st, 1887, inclusive.	256,740
Total number of loads of street dirt, sand, snow, ice, &c., collected and removed, from January 1st to December 31st, 1887, inclusive.	269,049
Total number of loads of all kinds removed during the twelve months ending December 31st, 1887.	525,789

TABLE C—Concluded.

Total amount paid for collecting and removing garbage and ashes, from January 1st to December 31st, 1887, inclusive.....	\$124,974 00
Total amount paid for collecting and removing street dirt, sand, &c., from January 1st to December 31st, 1887, inclusive.....	115,022 20
	\$239,996 20
Amount of money received for refuse, from January 1st to December 31st, 1887, and paid to Comptroller.....	\$1,563 05

TABLE D.

Showing the amount of Animal and Vegetable Garbage delivered to Contractors at Back Basin and Winans' Cove Dumps.

1887. MONTHS.	CANTON DUMP.	No. of Loads.
January	J. Holdefer, Sup't.....	663
February.....	“ “	535
March	“ “	532
April	“ “	684
May.....	“ “	1144
June.....	“ “	1277
July.....	“ “	1936
August.....	“ “	2434
September	“ “	1988
October.....	“ “	1581
November.....	“ “	594
December	“ “	691
		14059

TABLE D—Concluded.

1887. MONTHS.	WINANS' COVE DUMP.	No. of Loads.	TOTAL.
January	L. S. Fefel, Sup't.	862	1525
February	“ “	734	1269
March	“ “	739	1271
April	“ “	1197	1881
May	“ “	2049	3193
June	“ “	2086	3363
July	“ “	2226	4162
August	“ “	2808	5242
September	“ “	2320	4308
October	“ “	2588	4169
November	“ “	1040	1634
December	“ “	1290	1981
		19939	33998

TABLE E.

Showing Disbursements for the year ending December 31, 1887.

Total amount expended for collecting and removing garbage, ashes, street dirt, &c., from January 1st to December 31st, 1887.....	\$239,996 20
Amount expended for Dumps from January 1st to December 31st, 1887.....	4,675 30
Amount expended for salaries from January 1st to December 31st, 1887.....	8,999 64
Amount expended for tools and incidentals from January 1st to December 31st, 1887.....	2,012 53
Paid M. W. Adams for removal of garbage	8,250 00
	\$263,933 67

TABLE E--Concluded.

Amount of appropriation for the Department of Street Cleaning for the year	
1887.....	\$263,940 00
Amount of appropriation expended.....	263,933 67
Unexpended balance.....	\$6 33

ANNUAL REPORT
OF THE
Trustees of the Poor
OF THE
CITY OF BALTIMORE,
TO THE
Mayor and City Council of Baltimore,
FOR THE
FISCAL YEAR ENDING DECEMBER 31, 1887.

OFFICERS OF THE INSTITUTION.

BOARD OF TRUSTEES:

JOSEPH FRIEDENWALD, *President.*

JOHN BLACK, *Secretary.*

JOHN J. HOFFMAN,

SIMON I. KEMP,

JOHN R. HUDGINS,

GEORGE A. BLAKE,

FRANCIS CUTAIAR.

JOHN F. STONE.....	Superintendent.
JOHN M. McELROY.....	Purveyor.
JOHN R. HAMMETT.....	Clerk and Storekeeper
SUSANNA McCAHAN.....	Matron.
WILLIAM KAISER.....	Engineer.
JAMES J. FARRALL.....	Assistant Engineer.
JOHN F. BARRANGER.....	Gardener.
THOMAS CONNOR.....	Messenger.
JOHN BEISWANGER.....	Baker.

MEDICAL DEPARTMENT:

DR. R. B. WARFIELD.....	Resident Physician.
DR. N. T. CARSWELL.....	“ “
DR. J. C. HEMMETER.....	{ Resident Physician for
	{ Insane Department.
DR. F. C. ARD.....	Assistant.
JUSTUS V. STEHL.....	Apothecary.

REPORT.

BAY VIEW ASYLUM, December 31, 1887.

To the Honorable the Mayor

and City Council of Baltimore :

GENTLEMEN :

In compliance with custom, we beg leave to present you with our annual report, in the detail statement of which will be found a comprehensive view of the entire management of this charitable institution. While its labors and responsibility are great and continual, we have had the encouragement of your honorable bodies, as well as the retiring Mayor, James Hodges, as also the newly elected Mayor, Hon. F. C. Latrobe, who, as heretofore, has taken great interest in this truly needful humanitarian institution.

In our efforts to administer the charities of Bay View Asylum, we have been actuated by strict economic expenditures on the one hand and a humane and charitable regard for those whose unfortunate condition in life consigned them to the protecting shelter of this asylum.

We would indeed be remiss to our own conscience if we did not in this report make mention of the general good behavior of the inmates of Bay View and the

general readiness of those who are able to assist and do such work as is required of them. There are many whose former condition and respectability in life indeed entitled them to special regard and consideration, and there are but few of the entire inmates whose condition, whether deserved or not, but are entitled to the warm sympathies of the humane public.

We have found by experience that under kind treatment many have entirely reformed and become useful citizens, and are now following their various avocations and trades and re-established their homes in their own family circles, while there are others whose former habits of drinking to excess has had the effect to shatter their constitutions. This class are steadily building up, and we are hopeful and use every endeavor to give them moral encouragement, and in this we have not been entirely unsuccessful.

FARMING OPERATIONS.

Our farming operations for the past year have been very satisfactory. We have been enabled to supply the house at large with fresh vegetables, and have a large reserve now on hand, which will last until spring, all of the farm work being done by inmates.

OLD AND INFIRM.

The Chronic department, which comprises for the most part the old and infirm, have had at all times the special attention of the Board of Trustees, and all their requirements promptly attended to. They have our warmest solicitude and are comfortable and happy.

MEDICAL DEPARTMENT.

The Medical department is all that can be desired. The change made some four years ago, to which we have referred in previous reports, continues to meet our full approval. Many important and difficult surgical operations were made during the year. In fact, no one can get better or more skillful medical attendance in any station of life than those who are inmates of Bay View.

The Board of Trustees beg to acknowledge their thanks to the resident physicians, Drs. Warfield, Himmiter, Carswell and Ard, and to the visiting Professors of the University of Maryland, the College of Physicians and Surgeons and the Professors of the Johns Hopkins University for their faithful and regular attendance.

INSANE DEPARTMENT.

We regret to state that the large increase of insane has more than filled this department and it is very much overcrowded, necessitating at an early day an additional building, to which we called attention in our last report, and would respectfully urge your honorable bodies to take early action on this important matter. It must be borne in mind that we have received large numbers of city insane patients, both from Spring Grove and Mount Hope, and we are now compelled to place a large number of the more quiet insane in the main building in rooms entirely unadapted. We therefore earnestly call your attention to this matter.

REPORT OF THE
RECREATION GROUNDS.

The walks and recreation grounds, both for the insane and convalescent hospital patients, are in fine condition and afford healthful recreation. In a very short period the trees which were planted about two years ago will afford pleasant shade and have an ornamental effect. As it is, the inmates, both male and female, are protected against sun and rain by large pavilions, in which the insane spend much of their time when the weather is favorable in various amusements.

During this year the former Superintendent handed to the board his resignation, which was accepted, and Capt. John T. Stone was unanimously elected to fill the unexpired term. We are pleased to say that we have every reason to be satisfied with our selection. We find Capt. Stone eminently qualified for the position, being a humane and energetic officer, and under whose management good results have been made apparent.

INMATES.

There were remaining in the institution on December 31, 1887, 1,263 inmates. There were admitted during the year 2,185. There were born in the institution during the same period thirty-eight children, making a total of 3,486 who received the benefits of this institution during the year. The average number of inmates during the year was $1,044\frac{6}{12}$.

The amount drawn as per warrants upon the City Comptroller during the year was \$79,995.82, less \$3,965.46 received from sundry sources, as per exhibit,

and paid into the city treasury under existing city ordinance, reducing the net amount expended by the Trustees for the year ending December 31, 1887, to \$76,030.36, the cost per capita being \$72.79.

The number in the asylum at this time is 1,263, of which number 1,664 are white and 199 are colored. Of the 2,185 admitted during the year, 1,162 were born in the United States and 1,061 were of foreign birth. Of the number born in the United States, 455 claim their nativity in the city of Baltimore, 256 were born in the State of Maryland, and 451 claim their nativity in the States of the Union. Of the thirty-eight infants born in the institution, twenty-two were white and sixteen were colored.

FINANCIAL.

Exhibit No. 1 of this report will show the amount received and the source from whence it was derived during the year, as also the purpose for which it was expended.

The amount of the appropriation made by the city for the support of the institution for the year ending December 31, 1887, was \$80,000. By reference to the aforesaid exhibit it will be observed that of the amount appropriated, \$79,995.82 was drawn from the city treasury, and \$3,965.46 was paid to the City Register.

The amount drawn from the city treasury has enabled the Trustees to meet and discharge all liabilities

incurred by them in the management of the trust confided to them. The Trustees, owing to the increased number of inmates, find it necessary to ask for an appropriation of \$85,000 for the year 1888.

SANITARY.

The reports of the Resident Physicians, herewith, gives a detailed statement of the departments under their charge. We would respectfully call your attention to the same.

For important statistics in connection with the asylum we would refer you to the accompanying tables, marked A to M, both inclusive, as also to the reports of the engineer, gardener and baker.

The Board of Trustees have met with a serious loss during the year by the death of Mr. Wm. H. Hiss, for many years Purveyor of the Asylum; the following resolutions were unanimously passed in recognition of his valuable services:

WHEREAS, The Board of Trustees have this day met with a great loss by the death of Mr. Wm. H. Hiss, late Purveyor of the Asylum.

Resolved, That the Trustees desire to place on record their recognition of his long and faithful services as Purveyor, and as general assistant to the Board.

Resolved, That the death of Mr. Hiss the City of Baltimore has lost a faithful and most efficient public

servant; the poor and unfortunate a kind and ever ready friend and sympathizer, and the Board an officer that, by his untiring energy and zeal, won their highest regard and appreciation.

Resolved, That the Trustees attend his funeral in a body, and that these resolutions be published, and a copy be sent to his family.

Mr. John M. McElroy was elected Purveyor, to succeed Mr. Hiss, and we bear testimony to his efficiency and energetic efforts in his department.

The Board tender to all the officers their warmest thanks for their faithful and efficient services during the year.

Respectfully submitted,

JOSEPH FRIEDENWALD,
JOHN BLACK,
SIMON I. KEMP,
GEORGE A. BLAKE,
JOHN J. HOFFMAN,
JOHN R. HUDGINS,
FRANCIS CUTAIAR,

Trustees.

FINANCIAL EXHIBIT FOR 1887.

Showing the amount received by the Trustees during the year terminating December 31, 1887, the sources from whence derived and the purposes for which disbursements were made, and the amount expended.

Dr.	1887.	Cr.
Dec. 31—To amount received from City Comptroller on account of annual appropriation. \$79,995 82		Dec. 31—By balance paid for supplies, embracing food, fuel, clothing, bedding and other necessities \$46,732 53
To amount received from sale of bones, grease, barrels and offals 160 44	160 44	By amount expended on farm account, embracing provender for the horses and cows, repair of carriages and wagons and harness, purchases and repairs of farm implements, shoeing animals, and such other expenditures as are properly chargeable
To amount received from inmate boarders 1,788 00	1,788 00	
To amount received from board of resident students 1,654 20	1,654 20	
To amount received from sale of medicines 11 25	11 25	

To amount received from sale of live stock, grain, &c....	351 57	to farm account.....	2,960 26
		By amount paid for hospital stores	4,944 85
		By amount paid for expenses incurred in repairs about the building and fences.	8,301 28
		By amount paid for salaries and hire ac- count	15,848 90
		By amount paid trus- tees for per diem....	1,208 00
		By amount paid City Register as required by ordinance of the city	3,965 46
			\$83,961 28
	\$83,962 18		

FINANCIAL EXHIBIT FOR 1887—Concluded.

RECAPITULATION.

Amount drawn from City Treasurer.....	\$79,995 82
Amount paid City Register.....	3,965 46
Actual amount expended.....	\$76,030 36
Average number of inmates.....	1,044 $\frac{6}{12}$
Cost per capita.....	\$72 79

TABULAR STATEMENT

— OF THE —

SUPERINTENDENT

MARKED A TO M,

FOR THE YEAR 1887.

TABLE A.

Showing the number of persons admitted, born, discharged, eloped and died; also the number remaining at the expiration of each month for the year ending December 31, 1887.

DATE.	Admitted.	Born.	Discharged.	Eloped.	Bound.	Died.	Remaining.
January	248	2	60	111	....	28	1,267
February ...	139	6	62	126	....	17	1,207
March	153	10	80	124	....	30	1,136
April	146	2	82	197	....	14	991
May	141	4	78	155	....	16	887
June	120	2	70	61	....	15	863
July	170	1	69	30	....	17	918
August	182	2	107	35	....	25	935
September...	163	1	87	28	....	14	970
October	192	2	115	28	....	24	997
November...	263	3	113	29	....	21	1,100
December ...	268	3	66	28	....	14	1,263
Total	2,185	38	989	952	....	235	12,534

On the books December 31, 1886.....1,216

Total ingress.....2,223

3,439

Total egress.....2,176

In the house December 31, 1887.....1,263

TABLE B.

Showing the birthplace of persons admitted to the Almshouse from January 1, 1887, to December 31, 1887.

NATIVES.	FOREIGNERS.
Almshouse 40	Germany 418
Baltimore 455	Wales 5
Maryland 256	England 79
Virginia 101	Scotland 29
Pennsylvania 88	Ireland 402
New York 75	France 16
Delaware 7	Holland 1
District of Columbia . . 19	Norway 4
Connecticut 5	Canada 13
Massachusetts 13	West Indies 7
New Hampshire 3	Sweden 9
Kentucky 2	Poland 28
North Carolina 8	Bohemia 8
New Jersey 9	Austria 7
Florida 1	Malta 3
Georgia 2	Switzerland 4
Texas 1	Italy 6
South Carolina 8	Japan 1
California 1	Russia 7
Louisiana 5	Finland 3
West Virginia 3	South America 2
Wisconsin 2	Denmark 3
Vermont 3	Bavaria 1
Ohio 11	Australia 1
Michigan 3	Gibraltar 1
Missouri 3	East Indies 2
Rhode Island 7	Arabia 1
Illinois 2	
Iowa 2	Foreigners 1,061
Indiana 1	Natives 1,162
Mississippi 5	
Maine 3	Total 2,223
Unknown 18	
1,162	

TABLE C.

Showing the ages of persons admitted to the Almshouse from January 1,
1887, to December 31, 1887.

Under 1 year	49
From 1 to 5 years	12
“ 5 to 10 “	5
“ 10 to 15 “	9
“ 15 to 20 “	88
“ 20 to 30 “	492
“ 30 to 40 “	494
“ 40 to 50 “	468
“ 50 to 60 “	307
“ 60 to 70 “	196
“ 70 to 80 “	57
“ 80 to 90 “	12
“ 90 to 100 “	2
Unknown	32
Total	2,223

TABLE D.

Showing the period of residence in the city of all persons admitted into the Almshouse from January 1, 1887, to December 31, 1887.

Born in the Almshouse.....	40
Born in Baltimore.....	455
Less than one week	254
One week, and less than one month.....	212
One month, and less than three months.....	89
Three months, and less than six months.....	72
Six months, and less than one year.....	73
One year, and less than two years.....	114
Over two years.....	853
Period of residence unknown.....	61
Total	2,223

TABLE E.

Showing the habits of persons admitted into the Almshouse from January 1, 1887, to December 31, 1887.

Intemperate adults.....	1,711
Temperate adults.....	408
Adults whose habits are unknown.....	44
Children of intemperate adults.....	16
Children of temperate adults.....	44
Children of adults whose habits are unknown....	0
Total	2,223

TABLE F.

Showing the monthly average of persons in the Almshouse from January 1, 1887, to December 31, 1887.

DATE.	WHITE.			COLORED.			WHERE FROM.		Total.
	Men.	Women.	Children.	Men.	Women.	Children.	City.	Elsewhere.	
January	740	313	14	90	107	3	754	513	1,267
February	686	310	18	86	105	2	707	500	1,207
March	616	306	21	88	103	2	722	414	1,136
April	504	297	17	69	101	3	611	380	991
May	411	295	12	64	99	6	520	367	887
June	393	296	13	58	97	6	527	336	863
July	431	303	10	73	96	5	559	359	918
August	435	310	18	74	94	4	590	345	935
September	464	316	20	80	88	2	617	353	970
October	497	315	18	78	87	2	618	379	997
November	601	310	19	81	86	3	640	460	1,100
December	743	304	17	104	91	4	709	554	1,263
Total	6,521	3,675	197	945	1,154	42	7,574	4,960	12,534
Monthly average...	543 ⁵ / ₁₂	306 ³ / ₁₂	16 ⁵ / ₁₂	78 ⁹ / ₁₂	96 ² / ₁₂	3 ⁶ / ₁₂	631 ² / ₁₂	413 ⁴ / ₁₂	1,044 ⁶ / ₁₂

TABLE G.

Showing the number of persons committed to the Almshouse by magistrates, and their age, sex, color and period of commitment, from January 1, 1887, to December 31, 1887.

DATE.	SEX AND AGE.				Total.	COLOR.		Total.	PERIOD OF COM'NT.			Total.
	Males over 21.	Males under 21.	Females over 18.	Females under 18.		White.	Colored.		Under 3 months.	3 to 6 months.	6 months and over.	
January	9	...	5	...	14	14	....	14	5	3	6	14
February	8	...	2	...	10	9	1	10	3	2	5	10
March.....	7	2	3	...	12	6	6	12	5	3	4	12
April.....	10	1	3	...	14	11	3	14	3	9	2	14
May.....	10	...	2	...	12	11	1	12	4	5	3	12
June.....	4	...	3	...	7	6	1	7	2	4	1	7
July	5	...	6	...	11	9	2	11	3	7	1	11
August.....	5	1	2	1	9	8	1	9	6	3	...	9
September	10	...	2	...	12	11	1	12	....	7	5	12
October.....	9	...	3	1	13	9	4	13	5	6	2	13
November	9	...	7	...	16	14	2	16	8	6	2	16
December.	7	...	6	...	13	11	2	13	5	4	4	13
Total	93	4	44	2	143	119	24	143	49	59	35	143

TABLE H.

Showing the birthplace of persons committed to the Almshouse as vagrants, &c., by magistrates from January 1, 1887, to December 31, 1887.

NATIVES.		FOREIGNERS.	
Baltimore	30	Germany	23
Maryland.....	17	Ireland	12
Virginia.....	12	England	2
Massachusetts	4	Austria	1
Pennsylvania	8	Bohemia	2
New York	8	Malta.....	2
District of Columbia..	3	South America.....	1
Delaware.....	3	Italy.....	3
Rhode Island.....	3	Poland.....	2
Unknown.....	7		
	—	Foreigners.....	48
	95	Natives	95
		Total.....	143

TABLE I.

Showing the work done by inmates from January 1, 1887 to December 31, 1887, and its approximated value.

20,345	days labor, at \$1.00	\$20,345 00
1,878	“ washing and ironing, at 50 cts..	939 00
2,230	“ carpenters' work, at \$1.50	3,345 00
626	“ painting and glazing, at \$1.50..	939 00
313	“ tinnners' work, at \$1.50	469 50
85	“ bricklaying, at \$1.50	127 50
54	“ plastering, at \$1.50	81 00
1,252	“ tailoring, at \$1.50	1,878 00
626	“ cobblers' work, at \$1.50	939 00
626	“ blacksmithing, at \$1.50	939 00
2,814	shirts made, at 12 cts	337 68
1,236	undergarments made, at 15 cts	185 40
765	frocks made, at 25 cts	191 25
679	pairs of drawers made, at 15 cts	115 35
56	pairs of stockings made, at 20 cts....	11 20
395	aprons made, at 5 cents	19 75
76	infant slips made, at 10 cts	7 60
934	bed ticks made, at 15 cts	140 10
1,484	pillow cases made, at 15 cts	72 60
504	pillow ticks made, at 5 cts	25 20
737	bed sheets made, at 5 cts	36 85
65	window curtains made, at 10 cts	6 50
346	women's jackets made, at 25 cts	86 50
95	table covers made, at 5 cts	4 75
1,102	towels made, at 5 cts	55 10
278	slips made, at 20 cts	55 60
438	quilts and spreads made, at \$1.00....	438 00
42	mosquito nettings made, at 50 cts...	21 00
		\$31,812 43

TABLE K.

Showing the quantity of Clothing issued to the Inmates from January 1, 1887, to December 31, 1887.

DATE.	Pairs of Shoes and Slippers.	Shirts.	Pairs of Men's Hose.	Pantaloon.	Vests.	Jackets.	Coats.	Hats.	Aprons.	Flannel Shirts.	Slips.	Dresses.	Women's Stockings.	Drawers.	Under Garments.	Women's Josies and Jackets.
January	87	287	148	62	25	20	30	..	8	39	12	71	67	23	64	27
February	37	229	102	72	15	24	40	12	14	26	10	50	20	23	82	48
March	102	279	46	36	10	20	35	..	12	20	8	37	20	38	59	33
April	115	205	66	76	11	18	20	12	18	25	..	17	55	52	74	44
May	91	220	156	65	5	..	..	18	25	18	4	63	20	64	108	25
June	60	199	36	58	5	10	7	15	5	4	8	65	26	36	52	16
July	95	106	36	41	4	8	3	15	9	..	8	29	21	46	41	17
August	51	243	33	74	10	10	..	..	20	..	6	75	16	64	103	5
September	71	288	84	90	15	7	2	12	31	8	..	34	38	50	156	12
October	72	255	127	28	10	7	7	..	18	64	12	23	41	67	80	15
November	44	268	115	32	18	8	9	12	20	169	10	51	19	69	118	46
December	114	235	136	166	21	35	48	16	113	47	31	146	34	337	199	57
Total	939	2814	1085	800	149	167	201	112	293	420	109	661	377	869	1136	345

TABLE L.

Showing the number of births and deaths in each month; also the sex and color, from January 1, 1887 to December 31, 1887.

DATE.	BIRTHS.					DEATHS, ADULTS.				DEATHS, CHILDREN.				Total.
	White Males.	White Females.	Colored Males.	Colored Females.	Total.	White Males.	White Females.	Colored Males.	Colored Females.	White Males.	White Females.	Colored Males.	Colored Females.	
January	1	1	..	..	2	12	6	6	4	..	..	..	..	28
February.....	2	3	1	..	6	7	1	4	5	..	..	..	..	17
March	1	5	2	2	10	12	7	6	2	1	..	2	..	30
April	..	1	1	..	2	4	2	4	4	..	..	..	..	14
May	..	1	2	1	4	3	5	1	7	..	..	..	..	16
June	..	..	1	1	2	5	2	3	5	..	..	..	..	15
July	..	..	..	1	1	4	6	2	4	..	1	..	..	17
August	2	..	..	..	2	13	3	2	6	..	1	..	..	25
September.....	1	..	..	..	1	6	3	3	2	..	..	..	..	14
October	..	..	1	1	2	9	5	3	6	..	..	1	..	24
November.....	1	1	..	1	3	5	9	4	3	..	..	..	..	21
December	2	..	..	1	3	4	6	2	1	..	1	..	..	14
Total	10	12	8	8	38	84	55	40	49	1	3	3	..	235

TABLE M.

Showing the names, quantity, and average cost of articles purchased for the Institution from January 1, 1887, to December 31, 1887.

A.

Apples, dried,	415 lbs.,	at 5 cents per lb.
Apples,	12 bbls.,	at \$2.25 per bbl.
Alcohol,	16 galls.,	at 2.16 per gall.

B.

Brushes, shaving,	1½ doz.,	at \$1.25 per doz.
“ hand-dusting,	4 “	at 2.40 “
“ scrubbing,	14 “	at 1.75 “
“ whitewash,	6 “	at 14.00 “
“ deck-scrub'ng,	2 “	at 2.37 “
“ paint,	9½ “	at 2.00 “
“ shoe,	1½ “	at 2.00 “
“ sweeping,	3 “	at 6.90 “
Buckets, agate,	9 “	at 1.50 each.
“ water,	7 “	at 1.75 per doz.
Butter,	4,357 lbs.,	at 17 cts. per lb.
Brooms, corn,	40 doz.,	at \$2.75 per doz.
“ hickory,	12 “	at 2.75 “
“ street,	1 “	at 5.00 “
Blankets,	175 pairs,	at 1.87 per pair.
Bricks,	7,000	at 14.00 per M.
Buckwheat flour,	225 lbs.,	at 2½ cents per lb.
Bacon, shoulders, plain,	35,366 lbs.,	at 6¼ “ “
“ “ S. C.,	2,395 “	at 8¼ “ “
“ hams,	2,800 “	at 12 “ “

TABLE M—Continued.

Beef,	88,104 “	at 4½ cents per lb.
“ round, roast&steak,	14,368 “	at 5½ “ “
Barley,	10 kegs, 100 lb	at \$3.25 per keg.
Buttons,	24 gt. gr.,	at 15 c. per gt. gr.
Bed ticking,	1,356 yds.,	at 13½ cts. per yd.
Beans, white,	28 bush.,	at \$2.26 per bus.
Baskets,	2½ doz.,	at 4.19 per doz.
Brogans,	168 prs.,	at 1.27 per pair.
Buskins,	325 prs.,	at 1.00 “

C.

Crackers, water,	1,548 lbs.,	at 7½ cents per lb.
“ soda,	458 lbs.,	at 8 “ “
Calico,	7,705 yds.,	at 8 “ per yd.
Candles,	120 lbs.,	at 9 “ per lb.
Cheese,	167 “	at 12½ “ “
Corn starch,	640 “	at 6 “ “
“ meal,	900 “	at 1¼ “ “
Coal, Cumberland,	2,062 tons,	at \$2.78 per ton.
“ Sunbury,	234 “	at 4.57 “
Coffee, Laguayra,	1,336 lbs.,	at 25 cents per lb.
“ Rio,	8,920 “	at 17½ “ “
“ Hummell's es'ce,	1,282 “	at 4½ “ “
Corn chop,	20,110 “	at \$1.00 per 100.
Crash,	620 yds.,	at 11¼ cts. per yd.
Cakes, ginger,	949 lbs.,	at 6¾ cts. per lb.
“ sugar,	470 “	at 9¼ cts. per lb.
Chamois skin,	3,	at 45 cents each.
Corn,	24,853 bush.,	at 50 cts. per bush.
Cement.	44 bbls.,	at \$1.57 per bbl.

TABLE M—Continued.

Charcoal,	150 bbls.,	at 40 cents “
Collars, horse,	4,	at \$3.50 each.
Combs, dressing,	10 doz.,	at 40 cts. per doz.
“ fine tooth,	28 “	at 30 cts. “
Cotton waste,	102 lbs.,	at 7 cents per lb.
Castings,		\$88.18.
Cotton, batts,	32 doz.,	at 10 cents per lb.
“ knitting,	24 “	at 45 cts. per doz.
“ spool,	143 “	at 32 cts. per doz.
Camphor, gum,	40 lbs.,	at 16 cents per lb.
Construction, &c., &c.,		\$1,991.52
Cloth’g, men’s r’dymade,		\$460.00

D.

Domestic plaid,	2,892½ yds.,	at 4 cents per yd.
Drugs (contract),		\$1,381.71
Dress goods,	1,184 yds.,	at 19 cts. per yd.

E.

Engineer’s stores and repairs, &c.,	\$2,336.54.
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F.

Flannel,	1,026 yds.,	at 18 cts. per yd.
Flour, family,	55 bbls.,	at \$5.65 per bbl.
“ extra,	1,767 “	at 4.42 “
Fire-clay,	7 “	at 2.48 “
Files, saw,	32 doz.,	at 1.75 per doz.
Furniture, &c.,		\$857.09.

TABLE M—Continued.

G.

Glass, window,	29 boxes,	at \$2.35 per box.
Glass and queensware,		\$243.35.
Glue,	16 lbs.,	at 19 cents per lb.
Grains,	895 bush.,	at 8 cts. per box.
Gingham,	1,302 yds.,	at 3 cents per yd.

H.

Hose, women's,	192 doz.,	at 72 cts. per doz.
“ men's,	198 “	at \$1.00 per doz.
Hinges,	32½ “	at 10 cts. per doz.
Hame strings,	6 “	at 50 cts. per doz.
Hops,	90 lbs.,	at 30 cts per lb.
Hay, clover,	22 $\frac{1500}{2000}$ tons,	at \$13.00 per ton.
Hominy,	15 bbls.,	at \$3.50 per bbl.
Hardware,		\$542.33.
Harness and repairs,		\$102.15.
Herrings,	28 bbls.,	at \$5.50 per bbl.
Hats,	22 doz.,	\$61.25.
Handkerchiefs,	9 “	at 40 cts. per doz.
Hollands,	235 yds.,	at 30 cts. per yd.

I.

Ice,	29 $\frac{660}{2000}$ tons,	at \$4.00 per ton.
Indigo blue,	14 doz.,	at 21 cts. per doz.

L.

Leather, sole,	772 lbs.,	at 30 cts. per lb.
“ calfskin,	18	\$41.00.

TABLE M—Continued,

Lard,	3,455 lbs.,	at 7 cts. per lb.
Lead, white,	3,428 “	at 6 “ “
Lime and hair,	378 bush.,	at 28 cts. per bus.
“ chloride of,	2,367 lbs.	at 3 cts. per lb.
Lumber, culls, dressed,	20,272 feet,	at \$20.00 per M.
“ miscellaneous,	43,976 “	at \$19.00 “

M.

Men's wear,	3,912 yards,	at 31 cts. per yd.
Muslin, brown,	10,210 “	at 6½ “ “
Mosquito netting,	2,193 “	at 2½ “ “
Matches,	134 gross,	at 65 c. per gross.
Mustard,	60 lbs.,	at 28 cts. per lb.
Malt, ground,	6 bush.	at \$1.05 per bush.
Mutton,	62,416 lbs.,	at \$3.09 per 100.
Molasses,	993 galls.,	at 25 cts. per gal.
Mackerel,	5 kits No. 1,	at \$2.00 per kit.
Middlings,	1,184 bush.,	at 21 cts. per bus.
Manure, fertilizers, &c.,	1 ton,	\$35.00.
Miscellaneous,		\$4,126.99.

N.

Notions,		\$506.64.
Nails, finishing,	38 papers,	at 10 c. per paper.
“ cut,	27 kegs,	at \$1.98 per keg.
Nutmegs,	4 lbs.,	at 42 cts. per lb.
Napkins,	10 doz.,	at \$1.38 per doz.

O.

Oatmeal,	31 bbls.,	at \$4.50 per bbl.
Oats,	1,416 bush.,	at 40 c. per bush.

TABLE M—Continued.

Oil, lard,	384 galls.,	at 59 cts. per gal.
“ gas,	212 bbls.,	at \$5.18 per bbl.

P.

Padlocks,	6½ doz.,	at \$4.32 per doz.
Pins,	56 pckges.,	at 28 cts. per pkg.
Pies,	1,891,	at 6 cts. each.
Paints, &c.,		\$151.27.
Putty,	276½ lbs.,	at 2½ cts per lb.
Potatoes,	2,044 bush.,	at 71 cts. per bus.
Potash,	88 lbs.,	at 9 cts. per lb.
Pork, corned,	1,019 lbs.,	at 8 cts. per lb.
Pepper, black,	300 lbs.,	at 12½ cts. per lb.
Phenile,	151 galls.,	at \$1.50 per gal.

Q.

Quilts,	75,	at \$1.25 each.
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R.

Rice,	2,522 lbs.,	at 5 cts. per lb.
Raisins,	4 boxes,	at \$1.50 per box.
Rivets, tin,	8 lbs.,	at 26 cts. per lb.
Repairs, &c., &c.,		\$1,568.61.

S.

Slip stuff,	1,052 yds.,	at 18 cts per yd.
Spectacles,	12 doz.,	at \$2.50 per doz.
Starch,	362 lbs.,	at 3½ cts. per lb.
Spoons, tinned, iron,	13 gross,	at \$3.75 per gr.

TABLE M—Continued.

Soap, toilet,	38 doz.,	at 50 cts. per doz.
“ M. L.,	4,620 lbs.,	at 4 cts. per lb.
“	17,280 lbs.,	at 6 “ “
Shoe laces,	5 gross,	at 36 c. per gross.
“ leather,	10 “	at 38 “ “
Spreads,	148	at 90 cts. each.
Sponges,	4,	at 50 “ “
Shovels,	14 doz.,	at \$9.50 per doz.
Screws,	58 gross,	at 38 c. per gross.
Salt, fine,	192 bush.,	at 38 c. per bush.
“ G. A.,	52 “	at 24 “ “
Soda, cooking,	67 lbs.,	at 2 cts. per lb.
Straw, wheat,	72 tons,	at \$9.00 per ton.
“ rye,	13 “	at \$8.50 “ “
Solder,	180 lbs.,	at 14 cts. per lb.
Shoe findings,		\$32.96.
Sugar, brown,	4,600 lbs.,	at 5 cts. per lb.
“ white,	9,756 “	at 6½ cts. per lb.
Shoe blacking,	5 doz.,	at 50 cts. per doz.
Slippers, men's,	8 “	at 75 “ “
“ women's,	10 “	at 60 “ “
Shoeing and repairs,		\$190.98.
Seed, garden, &c.,		\$92.21.
Stoves and pipes,		\$102.87.
Spices,		\$192.38.

T.

Towels,	12 doz.,	at \$2.50 per doz.
Thread, patent,	138½ lbs.,	at \$1.12 per lb.
Tin plate,	12 boxes,	at \$6.42 per box.

TABLE M—Concluded.

Tobacco,	2,608½ lbs.,	at 27 cts. per lb.
Tea, He-no,	120 lbs.,	at 50 “ “
“ Black,	}	1,361 lbs., at 41 “ “
“ Imperial,		

V.

Vinegar,	696 galls.,	at 15 cts. per gal.
Varnish, copal,	10½ “	at \$1.70 per gal.
“ paraffine,	46 “	at 37 “

W.

Woodenware,		\$82.19.
Whiskey (hospital),	518 galls.,	at \$1.85 per gal.
Wire,	320 lbs.,	at 4 cts. per lb.

Y.

Yeast powder,	44 doz.	at \$1.67 per doz.
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REPORT OF THE ENGINEER.

BAYVIEW ASYLUM, January 1, 1888.

To the Honorable Board of Trustees :

GENTLEMEN :

I herewith most respectfully present to you the annual report of this department for the year ending December 31, 1887.

WM. KAISER, *Engineer.*

Total amount of Cumberland coal consumed, and by what department of the Institution.

1887.	Lbs.	Tons.	Pounds.
Tubular Boiler.....	4,022,500	1,795	1,120
Blacksmith Shop.....	8,020	3	1,300
Carpenter Shop.....	8,620	3	1,900
Main Gate.....	9,560	4	600
East Gate.....	6,180	2	1,700
West Gate.....	6,280	2	1,800
	4,061,160	1,812	1,700

Total amount of Sunbury coal consumed, and by what department of the Institution.

1887.	Lbs.	Tons.	Pounds.
Centre Kitchen.....	78,160	34	2,000
Matron's Kitchen.....	52,620	23	1,100
Ironing Room.....	29,120	13	900
Bake House.....	66,460	29	1,500
Pest Hospitals.....	56,750	25	750
Insane Hospital.....	53,760	24	1,500
	336,870	151	1,030

Cumberland coal on hand December 31, 1887..100 tons.

Sunbury coal on hand December 31, 1887.... 85 “

REPORT OF THE GARDENER.

BAYVIEW ASYLUM, January 1, 1888.

To the Honorable Board of Trustees :

GENTLEMEN :

Permit me, most respectfully, to present this, my annual report, as Gardener of the Institution, for the year ending December 31, 1887.

JOHN F. BARRANGER, *Gardener.*

REPORT OF THE GARDENER.

ARTICLES.	Bushes.	Dozen.	Bunches	Pounds.	Gallons.	Tons.	No. of.	Prices.	Amount.
Cabbage.....	.....	.....	.....	.....	.....	.....	4,442	\$ 7	\$310 94
Tomatoes.....	370	.....	.....	.....	.....	.....	.....	75	277 50
Potatoes.....	658	.....	.....	.....	.....	.....	.....	70	460 60
Asparagus.....	.....	.....	465	.....	.....	.....	.....	20	93 00
Spinach.....	40	.....	.....	.....	.....	.....	.....	75	30 00
Turnips.....	760	.....	.....	.....	.....	.....	.....	60	456 00
Carrots.....	300	.....	.....	.....	.....	.....	.....	1 00	300 00
Parsnips.....	450	.....	.....	.....	.....	.....	.....	1 00	450 00
Celery.....	.....	.....	2,568	.....	.....	.....	.....	10	256 80
Corn (Green).....	.....	98	.....	.....	.....	.....	.....	12	11 76
Pickles.....	.....	.....	.....	.....	.....	.....	18,500	2 00	37 00
Cucumbers.....	.....	400	.....	.....	.....	.....	.....	8	32 00
Cabbage Sprouts.....	65	.....	.....	.....	.....	.....	.....	75	48 75
Radishes.....	.....	.....	530	.....	.....	.....	.....	3	15 90
Peas (Green).....	210	.....	.....	.....	.....	.....	.....	60	126 00
String Beans.....	215	.....	.....	.....	.....	.....	.....	75	161 25
Leeks.....	.....	.....	2,894	.....	.....	.....	.....	4	115 76
Parsley.....	.....	.....	9,585	.....	.....	.....	.....	1	95 85
Lettice.....	.....	.....	.....	.....	.....	.....	2,628	5	131 40

[illegible]

REPORT OF THE BAKER.

BAYVIEW ASYLUM, January 1, 1888.

To the Honorable Board of Trustees:

GENTLEMEN :

I herewith present my annual report as Baker of this institution for the year ending December 31, 1887.

Very respectfully,

Your obedient servant,

JOHN BEISWANGER.

Flour received	1,756 bbls.
Loaves of bread baked . . . 449,274	
Loaves of bread on hand	
January 1, 1887	1,665
	450,939
Loaves of bread sent to	
store room	450,160
On hand January 1, 1888.	779
Weight of bread baked	505,433 lbs. 4 ozs.
Average weight of each loaf	1 lb. 2 "

REPORT

— OF THE —

RESIDENT PHYSICIANS

For the Year Ending December 31, 1887.

REPORT.

BAY VIEW ASYLUM, January 1, 1888.

To the Honorable Board of Trustees:

GENTLEMEN:

We have the honor to submit herewith the usual annual report of the Medical Department of this institution for the year ending December 31, 1887.

By the annexed tabular statement, to which we respectfully refer you for detailed information, it will be seen that there were remaining under medical treatment December 31, 1886, one hundred and sixty-one patients, and that there were admitted from January 1, 1887, one thousand eight hundred and twenty-five patients, making a total of one thousand nine hundred and eighty-six. Of this number there were cured, one thousand and sixty-two (1,062); relieved, three hundred and ninety-one (391); died, one hundred and ninety-four (194), and remaining under treatment December 31, 1887, one hundred and seventy-eight (178).

It will be seen that these numbers are somewhat larger than last year, but, large as they are, we have again to call attention to the fact that, although they include a few more patients than those actually sick in the hospital wards, they do not nearly comprise the

entire number of those who have been from time to time under medical treatment. Throughout the institution in the chronic wards, receiving cells and sleeping rooms, we are daily encountered with cases more or less severe which require medicine and medical attention, but which are usually too trivial to merit actual hospital treatment. These cases are for the most part examined and prescribed for in the dispensary connected with the hospital, which is opened daily for their accommodation.

It is well known that Bayview Asylum already bears the wide and well merited reputation of being one of the very best institutions of its class in this country; an institution where the welfare and comfort of the unfortunate individuals admitted to its care are assured. We are anxious that the public should also appreciate the position of the Hospital Department. There are treated here a larger number of patients than in any of the city hospitals, and we think that the sick enjoy here quite as many comforts and receive quite as good medical attention as would be given them in any hospital in the State.

The institution is to be congratulated in having escaped during the past year all kinds of contagious disease. There were admitted to us during the year two cases of measles and one of diphtheria, which being promptly isolated gave no trouble. In the latter part of November there came to us from some hospital in Pennsylvania a patient who had just recovered from small-pox. This patient, although about well, was entirely secluded for some six weeks to avoid any possible source of infection.

From our Lying-In Department we have to report a continuation of the remarkable good fortune which has attended it during the last three years. The few cases of slight septicaemia which were met with have in every instance promptly yielded to treatment.

To the visiting staff of medical officers, who have so ably and conscientiously guided and directed our efforts in the treatment and management of the sick, we have to extend our deepest gratitude.

The staff is at present thus constituted :

Physicians.

Prof. A. B. Arnold,
 “ John Lynch,
 “ I. E. Atkinson,
 “ Thomas Latimer,
 Dr. George H. Rohe,
 “ William A. Moale,
 “ S. T. Earle,
 “ Joseph T. Smith.

Surgeons.

Prof. L. McLane Tiffany,
 “ O. J. Coskery,
 “ J. E. Michael,
 “ C. F. Bevan,
 Dr. Randolph Winslow,
 “ J. W. Chambers,
 “ W. B. Platt,
 “ J. H. Branham.

The medical graduates who have been appointed during the year as resident students are to be commended for the faithful performance of their duties. Without their assistance the medical work at Bayview could scarcely be accomplished. They are: Doctors Allen, Ballard, Bonner, Chapman, Clark, Gaither, Gamble, Harden, Harrison, Kinne, Logan, McKim, Parker, Reamer, Sewall, Smith, Summers, Talbott and Wyse.

The work of the Drug Department deserves special mention as having been discharged by the druggist, Mr. Justus V. Stehl, in a most satisfactory manner.

We are indebted to the superintendent, matrons and officers of the institution for their invariable kindness and attention to the sick under our charge.

Finally, gentlemen, we have only to express to you our gratitude for the kind consideration you have always given to any measures advised by us for the relief of those under our care, and we assure you of our appreciation of the constant zeal and interest you have ever manifested in the medical workings of the institution.

Very respectfully yours,

R. B. WARFIELD, M.D.

N. T. CARSWELL, M.D.

TABULAR STATEMENT No. 1.

Of the number of cases treated in Bayview Asylum for the year ending
December 31, 1887.

DISEASES.	Treated.	Cured.	Relieved.	Died.	Remaining
Abscess (axillary)	4	4	...	...	...
“ (foot)	2	2	...	...	...
“ (labial)	3	3	...	...	...
“ (liver)	1	...	...	1	...
“ (neck)	3	3	...	...	...
“ (perilonjugial)	1	1	...	...	...
“ (periurethral)	3	3	...	...	...
“ (thigh)	1	1	...	...	...
Adenitis	14	12	2	...	...
Alcoholism	83	83	...	...	...
Anaemia (perucious)	3	2	1	...	...
“ (simple)	14	14	...	...	...
Anchylasis (finger)	2	2	...	...	...
“ (knee)	1	...	1	...	...
Aneurism (aortic)	4	...	...	3	1
“ (femoral)	1	1	...	...	...
Angina Pectoris (false)	1	1	...	...	...
“ “ (true)	2	...	2	...	...
Arthritis (chronic)	4	...	4	...	...
“ (deformans)	1	...	1	...	...
Asthma	6	...	5	...	1
Bright's Disease (acute)	3	2	...	1	...
“ “ (chronic)	45	...	15	26	4
Bronchitis (acute)	53	53	...	...	...
“ (chronic)	15	...	8	...	7
Buboes	32	29	...	...	3
Burns	11	10	...	...	1
Bursae (pre patella)	1	1	...	...	...
Calculi (venal)	4	3	3	...	...
Carbuncle	7	7	...	...	...

TABULAR STATEMENT No. 1.—Continued.

DISEASES.	Treated.	Cured.	Relieved.	Died.	Remaining
Carcinoma (larynx)	1	....	....	1	....
“ (liver)	1	....	....	1	....
“ (neck)	1	....	1	....	....
“ (oesophagus)	1	....	....	1	....
“ (stomach)	2	....	1	1	....
“ (uterus)	2	....	....	2	....
Cellulitis	5	5	....	....	....
“ pelvic	2	2	....	....	....
Cerebral Gunutata	3	....	2	1	....
Cerebral Hemorrhage	21	....	7	14	....
Chancroid	43	37	....	....	6
Chloral Habit	3	1	2	....	....
Cirrhasis (liver)	2	....	....	2	....
Conjunctivitis	48	48	....	....	....
Cystitis	11	10	1	....	....
Delirium Tremens	10	10	....	....	....
Diabetes (Insipidus)	1	....	....	....	1
“ (Mellitus)	5	....	3	....	2
Diarrhœa (acute)	41	41	....	....	....
“ (chronic)	13	1	6	2	4
Diphtheria	1	1	....	....	....
Dislocation (elbow)	1	1	....	....	....
“ (shoulders)	2	2	....	....	....
Dysentery (acute)	10	10	....	....	....
“ (chronic)	19	....	5	12	2
Eczema	10	6	4	....	....
Elephantiasis	2	....	....	....	2
Emphysema	10	....	8	1	1
Epididymitis	8	8	....	....	....
Epilepsy	13	3	8	....	2
Erysipelas	18	18	....	....	....

TABULAR STATEMENT No. 1—Continued.

DISEASES.	Treated.	Cured.	Relieved.	Died.	Remaining
Exopthalmic Giatre.....	1	.....	1	.....	.....
Fever (intermittent).....	75	75	.....	.....	.....
“ (remittent).....	3	3	.....	.....	.....
“ (typhoid).....	14	9	.....	3	2
Fistula (in Ano).....	6	3	2	.....	1
“ (recto Vaginal).....	1	.....	1	.....	.....
“ (versica “).....	2	.....	1	.....	1
Foreign Body (in rectum).....	1	1	.....	.....	.....
Fractures (arm).....	1	1	.....	.....	.....
“ (clavicle).....	4	4	.....	.....	.....
“ (callis).....	1	1	.....	.....	.....
“ (femur).....	2	2	.....	.....	.....
“ (jaw).....	1	1	.....	.....	.....
“ (leg).....	4	4	.....	.....	.....
“ (Potts').....	1	1	.....	.....	.....
“ (ribs).....	3	3	.....	.....	.....
Frost Bite.....	13	11	.....	.....	2
Furunculosis.....	4	4	.....	.....	.....
Gangrene (lung).....	1	.....	.....	1	.....
“ (scrotum).....	1	1	.....	.....	.....
“ (senile).....	1	.....	.....	.....	1
Gastric catarrh (acute).....	1	1	.....	.....	.....
“ “ (chronic).....	15	.....	15	.....	.....
Gastro-duodenal catarrh.....	5	4	.....	.....	1
Gonorrhœa.....	43	41	.....	.....	2
Hæmatocele.....	2	2	.....	.....	.....
Hæmorrhoids.....	13	7	4	.....	2
Heart Disease.....	50	.....	17	20	13
Hernia.....	25	16	.....	.....	9
Hydrocele.....	6	5	1	.....	.....
Hydrocephalus.....	2	.....	1	1	.....

TABULAR STATEMENT No. 1—Continued.

DISEASES.	Treated.	Cured.	Relieved.	Died.	Remaining
Hydrapo Articulorum.....	2	....	2	....	....
Hypachondriasis.....	6	1	4	....	1
Hypapion.....	2	1	....	....	1
Hysteria.....	8	3	5	....	....
Inanition.....	3	....	....	3	....
Incontinance (urine).....	5	2	2	....	1
Iritis.....	12	12	....	....	....
Keratatis.....	6	6	....	....	....
Laryngeal Tuberculosis.....	4	....	4	....	....
Lead Poisoning.....	3	3	....	....	....
Lipomata.....	2	2	....	....	....
Malarial Cachexia.....	31	21	10	....	....
Malingering.....	4	4	....	....	....
Measles.....	2	2	....	....	....
Meningeal Hemorrhage.....	1	....	1	....	....
Meningitis.....	1	....	....	1	....
Metrorrhagia.....	6	6	....	....	....
Morbus Coxalgia.....	2	....	1	....	1
Myalgia.....	12	6	6	....	....
Myelitis.....	5	....	2	3	....
Necrosis (leg).....	1	1	....	....	....
“ (phalanges).....	1	....	....	....	1
“ (ulna).....	1	1	....	....	....
Neuralgia (facial).....	5	4	....	....	1
“ (intercostal).....	6	4	....	....	2
Neuritis.....	5	4	1	....	....
Oedema Pulmonis.....	3	....	1	2	....
Opium habit.....	6	2	2	....	2
Oyster-shell hand.....	15	13	....	....	2
Paralysis (Bell's).....	2	2	....	....	....
“ (general, of insane.)	2	....	2	....	....

TABULAR STATEMENT No. 1—Continued.

DISEASES.	Treated.	Cured.	Relieved.	Died.	Remaining
Paraphimasis	4	4	.....	.....	.....
Paronychia	12	11	.....	.....	1
Periaothritis	1	1	.....	.....	.....
Pericarditis	2	1	.....	.....	1
Peritonitis (pelvic)	3	3	.....	.....	.....
“ (puerulant)	2	.....	.....	2	.....
Perityphlitis	1	1	.....	.....	.....
Pharyngitis	34	34	.....	.....	.....
Phemasis	15	15	.....	.....	.....
Pleurisy (acute)	19	19	.....	.....	.....
“ (chronic)	8	1	5	.....	2
Pneumonia (catarrhal)	6	3	.....	3	.....
“ (lobar)	30	18	.....	10	2
Poison Oak (emiptian)	2	2	.....	.....	.....
Potts' Disease	3	.....	2	.....	1
Psoriasis	4	2	1	.....	1
Phyalism	7	7	.....	.....	.....
Perpura hemorrhagica	2	.....	2	.....	.....
Pyæmia	1	1	.....	.....	.....
Rheumatism (acute)	33	30	.....	.....	3
“ (chronic)	48	4	34	.....	10
“ (Gonorrhœal)	6	4	2	.....	.....
Sarcoma (cerebral)	1	.....	.....	1	.....
“ (head)	1	1	.....	.....	.....
“ (ostia, of femur)	1	.....	.....	1	.....
Scabies	4	4	.....	.....	.....
Scald	2	2	.....	.....	.....
Sciatica	3	.....	3	.....	.....
Schro-demia	3	.....	2	.....	1
Senility	16	.....	.....	9	7
Shock	1	.....	.....	1	.....

TABULAR STATEMENT No. 1—Concluded.

DISEASES.	Treated.	Cured.	Relieved.	Died.	Remaining
Sinosis.....	8	3	3	....	2
Sprains.....	6	6	....	....	....
Stricture (urethral).....	8	5	1	....	2
Suicide.....	1	....	....	1	....
Sycosis (parasitica).....	1	1	....	....	....
Syphilis.....	144	27	96	2	19
Tabes Dorsalis.....	3	....	2	....	1
Tanea Salium.....	2	1	....	....	1
Tonsillitis.....	11	11	....	....	....
Trochoma.....	5	1	3	....	1
Tuberculosis.....	122	....	37	59	26
Typhlitis.....	1	....	....	1	....
Ulcers.....	64	46	8	....	10
“ (duodenal).....	1	....	....	1	....
Uterine (fibroids).....	2	....	1	....	1
Uterus (catarrh of).....	11	6	5	....	....
“ (cervical laceration of).....	5	3	2	....	....
“ (proidentior of).....	7	....	4	....	3
Vaginitis.....	8	8	....	....	....
Warts (venereal).....	9	7	2	....	....
Wounds (contused).....	8	8	....	....	....
“ (incised).....	11	11	....	....	....
“ (lacerated).....	6	6	....	....	....
“ (poisoned).....	1	1	....	....	....
“ (punctured).....	3	3	....	....	....
Zoster Herpes.....	2	2	....	....	....
Total.....	1825	1062	391	194	178

TABULAR STATEMENT No. 2.

Of the the surgical operations performed since January I, 1887.

DISEASES.	Treated.	Cured.	Relieved.	Died.	Remaining
Amputation (finger).....	1	1	....	....	....
“ (toes)	3	3	....	....	....
Circumcisions	9	9	....	....	....
Cyst (sebaceous).....	1	1	....	....	....
Excision (cervicle glands)....	3	3	....	....	....
“ (inguinal glands)....	3	3	....	....	....
“ (lipomata).....	2	2	....	....	....
“ (palepus, Past nasal)	1	1	....	....	....
“ (Pre patella bursae)..	1	1	....	....	....
“ (sarcoma of forehead)	1	1	....	....	....
Exterpation of Larynx.....	1	....	....	1	....
Fistula in Ano.....	2	2	....	....	....
“ (vesico vaginal).....	1	....	....	....	1
Hemorrhoids.....	2	2	....	....	....
Incision of Prepuce.....	14	14	....	....	....
Ligation (femoral artery for Anurism).....	1	1	....	....	....
Paracentesis (abdominus)....	3	....	3	....	....
“ (scrotum for Hydrocele).....	6	5	1	....	....
“ (thoracis)	1	1	....	....	....
Perinneorrhaphy.....	4	4	....	....	....
Perineal section.....	1	1	....	....	....
Periurethral abcess.....	1	1	....	....	....
Resection (knee).....	1	....	....	1	....
“ (ulna).....	1	1	....	....	....
Resection (hip).....	1	1	....	....	....
Stricture Urethral.....	8	5	1	....	2
Tracheloraphy.....	3	3	....	....	....
Total.....	76	66	5	2	3

TABULAR STATEMENT No. 3.

Showing number of births for year ending December 31, 1887.

White males	10
“ females	12
Colored males	8
“ females	8
 Total	 38

Recapitulation.

Remaining in hospital December 31, 1886	161
Total ingress	1,825
	1,986
Total egress	1,808
Remaining in hospital December 31, 1887	178

REPORT

— OF THE —

Resident Physician of City Insane Hospital,

For the Year Ending December 31, 1887.

R E P O R T.

BALTIMORE INSANE HOSPITAL, January 1, 1888.

To the Honorable Board of Trustees.

GENTLEMEN :

In compliance with a by-law of your Honorable Body, the following account of the operations of the Insane Department of the Baltimore City Almshouse, is respectfully presented :

In view of the constant increase of insanity, as shown by the census and referred to in my report of 1886, and to partially satisfy the demand for increased provision, I would suggest that extensions to our present building, or new structures be erected for the accommodation of seventy-five patients of each sex. This would enable us to make a better classification and to more completely isolate the noisy and turbulent from the quiet and harmless. These additions would bring the working capacity of the institution up to six hundred, a number not in excess of what can be properly accommodated and cared for under one management.

OUR PATIENTS.

Our organization is large and complex with practically a household of more than three hundred people

under one roof, whose work is one requiring unceasing and vigilant industry and pains on part of all workers, and often not free from harrassing and anxious care and strain. That such an arrangement should work together for the good of those intrusted to your care, without visible friction, or any untoward event or calamity, is a happy outcome of the year's work. The larger percentage of our patients belong to the chronic class.

FEEBLE-MINDED CHILDREN.

In my last annual report I was enabled to state that we had, through kindness of the Honorable Board, been freed from imbecile children, who were under the worst possible influences among the old and chronic insane. This year, again, we are daily witnesses to the contagion that the old exercise upon these young and feeble-minded. For such as these, a place of custody, in which there is a system in management and the proper appliances and conveniences for easily caring for them, are much needed.

No material change has been made in the past two years in the number of patients employed and the kind of work done. About fifty have found steady occupation in out door pursuits, especially in grading, while an equally large number of males and females are engaged in the manifold calls for work in the hospital household.

In the direction of diversions and amusements, such as have been employed heretofore have been continued. As the grounds become more attractive, by reason of

age and continued improvements, the members of our household desire greater pleasure and satisfaction from the out-of-door life. They here amuse themselves by games of base and foot ball, pitching quoits, running and walking. We have been liberally supplied with in-door games and means for diversion by a committee of the Johns Hopkins University, consisting of President D. C. Gilman, Profs. H. N. Martin and G. Stanley Hall, and Dr. James Carey Thomas. Many things might be mentioned which it is desirable to add to our means for the best care of our patients, and we hope that no year will pass without showing some improvement to increase the facilities and conveniences of this institution, or something done to add to the comfort of its inmates. Our nurses and employees are as good a class as can probably be gotten in an asylum of the character of ours, and most likely there will never be a better staff in this institution. They have, as a rule, been earnest and faithful in their part of the service, and are entitled to commendation. My official thanks are due to them, who have assisted me in accomplishing the good work of the year.

In the early part of spring our assistant physician in charge was appointed by the Honorable Board, nominated by the Johns Hopkins University, in person of Dr. Frank Clifford. His value and usefulness as assistant physician cannot be over-estimated.

The Insane Hospital is under the medical management of the Medical Department of the Johns Hopkins University, being represented by visiting chemists and physicians and surgeons, and two resident medical

officers. Among the scientific and professional gentlemen that assisted and advised us in the year's work are principally, Professor G. Stanley Hall, Prof. W. H. Welch, Drs. Wm. T. Councilman, James Carey Thomas and Henry M. Thomas, G. M. Halstead, and Dr. E. Cowles. It would be impossible to give even only a synopsis of the work of the University management in the narrow limit of this report, the efforts made and steps taken to elevate the standard of the Hospital to add to the comfort of the patients, to cure or relieve them by throwing light on, and spreading truth in the obscure field of morbid psychology.

ACKNOWLEDGMENTS.

To our much esteemed Professor Dr. Henry Newell Martin, of the Johns Hopkins University, is due the credit of having first created public interest in the management of this Asylum. Many useful games, pictures, ornaments and journals have been presented to our patients through his agency. This year, again, they will be generously remembered by a new supply of games, pictures and journals and periodicals.

The thanks of the Honorable Trustees are due to above gentleman and to many friends of the Hospital, who have aided in various ways, bringing assistance to the management, and comfort and consolation to the sick. To my professional associates, to the Superintendent, Mr. J. F. Stone, I cheerfully acknowledge my obligations for their untiring efforts to assist me in the performance of many and varied duties. To Mr. J. B. Stehl, the pharmacist, I acknowledge my ob-

ligations for prompt and careful preparation of medicines needed—and in

CONCLUSION.

I cannot refrain from congratulating the trustees on the excellent general condition of the Hospital, the good character of its service, the loyal, zealous spirit that generally prevails and the favorable and beneficial results of the year's work. The year has brought many unusual questions for solution, and the work, incident to routine and emergencies, has been great. The good standing and repute of a hospital are largely owing to the labors and earnest endeavors of its professional staff, and believing that the Honorable Board of Trustees fully appreciates the value and extent of its service, I wish, in turn, to express my cordial thanks for many evidences of confidence and trust received during the year, and to acknowledge with gratitude their hearty support and indulgence.

Very respectfully yours,

JOHN, C. HEMMETER,

*Physician in Charge under the Management of the
Johns Hopkins University.*

JANUARY 1, 1888.

TABLE I.

General operation of Insane Hospital.

	White Males.	White Females.	Colored Males.	Colored Females.	Total.
Present December 31, 1886.....	106	112	20	26	264
Admitted during the year.....	71	53	23	21	168
Total present during the year..	177	165	43	47	432
Discharged.....	23	16	11	6	56
Transferred to Bayview Asylum...	21	12	..	2	35
Died.....	13	15	4	9	41
Eloped.....	4	....	4	..	8
Eloped on pass.....	9	5	..	..	14
Total egress.....	70	48	19	17	154
Present December 31, 1887.....	107	117	24	30	278

TABLE II.

Number admitted, discharged, and died in each month with average population.

	Admitted.	Discharged.	Died.	Average.
January	12	8	2	264 $\frac{16}{31}$
February	15	6	3	267 $\frac{6}{8}$
March	12	4	4	272 $\frac{2}{31}$
April	13	12	4	274 $\frac{2}{5}$
May	23	9	2	282 $\frac{15}{31}$
June	16	14	3	288 $\frac{1}{8}$
July	18	4	4	289 $\frac{2}{31}$
August	14	14	4	289 $\frac{2}{31}$
September	8	6	4	290 $\frac{2}{5}$
October	14	10	4	290 $\frac{2}{31}$
November	13	12	3	286 $\frac{11}{15}$
December	10	14	4	278 $\frac{2}{31}$
	168	113	41	

TABLE III.

Places from which patients were admitted.

	White Males.	White Females.	Colored Males.	Colored Females.	Total
From home (Baltimore)	57	34	18	14	123
“ Maryland State Asylum	4	6	..	..	10
“ Mount Hope Retreat	1	3	..	..	4
“ Baltimore City Almshouse ..	9	10	5	7	31
	71	53	23	21	168

TABLE IV.

Those admitted more than once.

	White Males.	White Females.	Colored Males.	Colored Females.	Total.
In Hospital three times.....	1	1	..	1	3
“ twice.....	4	2	1	..	7
	5	3	1	1	10

TABLE V.

Period of residence of those discharged

					White Males.	White Females.	Colored Males.	Colored Females.	Total.
1 month and less.....					15	6	3	5	29
Between 1 and 3 months.....					14	9	7	..	30
"	3	"	6	"	7	7	1	..	15
"	6	"	12	"	7	3	1	1	12
"	1	"	2	years.....	7	3	3	1	14
"	2	"	4	"	6	2	..	1	9
"	6	"	8	"	..	1	..	..	1
"	8	"	10	"	..	1	..	..	1
"	10	"	12	"	1	..	..	..	1
"	12	"	14	"	..	1	..	..	1
Total discharged.....					57	33	15	8	113

TABLE VI.

Time of residence of those discharged.

	White Males.	White Females.	Colored Males.	Colored Females.	Total.
One month or less	1	4	3	8	
Between 1 and 3 months	2	...	4	6	
“ 3 and 6 “	2	...	1	3	
“ 6 and 12 “	3	1	3	7	
“ 1 and 2 years	4	5	1	10	
“ 4 and 6 “	1	1	1	3	
“ 6 and 8 “	...	1	...	1	
“ 8 and 10 “	...	1	...	1	
“ 20 and 22 “	...	1	...	1	
“ 26 and 18 “	...	1	...	1	
Total died	13	15	4	9	41

TABLE VII.

Form of Psychosis of those that died.

	Males.	Females.
Mania, acute.....	2	3
“ sub-acute.....	1	3
“ chronic.....	2	4
“ epileptic.....	1	1
“ puerperal.....	..	2
“ paroxysmal.....	1	1
Melancholia.....	2	3
Dementia, senile.....	1	4
“ chronic.....	..	2
“ with paralysis.....	1	1
Paresis.....	6	..
	—	—
Males.....	17	24
Females.....	24	..
	—	—
Total.....	41	

TABLE IX.

Condition of those Discharged.

Recovered.....	45
Very much improved.....	26
Improved.....	26
Stationary.....	14
Not iusane.....	2
Died from disease developed during the year.....	17
Admitted in a fatal condition.....	24
Total.....	154

TABLE X.

Hereditary Transmission in 155 cases Admitted.

	Males.	Females.
Father insane.....	5	2
Mother “.....	7	3
Paternal relatives insane.....	4	3
Maternal “ “.....	1	5
Paternal and maternal relatives insane.	11	9
Brothers insane.....	4	2
Sisters “.....	3	1
Hereditary insanity denied.....	21	18
Unknown.....	30	26
Males.....	86	69
Females.....	69	
Total.....	155	

TABLE XI.

Form of Psychosis when admitted of those discharged recovered.

	Males.	Females.
Mania, acute	16	5
“ subacute.....	2	2
Melancholia, acute, simple.....	5	..
“ puerperal	..	3
“ attonita.....	1	..
Paranoia.....	1	..
Dementia, acute.....	6	4
	—	—
Males.....	31	14
Females.....	14	
	—	
Total	45	

TABLE XII.

Causes of Deaths.

Tuberculosis, pulmonary	7
“ intestinal	2
“ pulmonary and intestinal	2
Tubercular, peritonitis	2
“ meningitis	2
Paresis	6
Chronic diffuse, nephritis	2
“ “ “ and heart disease	1
Epilepsy	3
Chronic dysentery	4
Typhoid fever	3
Pneumonia	1
Senile debility and decay	2
Exhaustion from acute mania	2
“ “ chronic “	2
Total	41

TABLE XIII—PSYCHOSIS.

Form of Mental Disorder in 155 cases on Admission.

Mania, acute.....	16
“ subacute.....	8
“ chronic.....	16
“ periodic.....	2
“ puerperal.....	3
“ hysterical.....	4
Dementia, acute.....	11
“ subacute.....	15
“ chronic.....	27
“ with epilepsy.....	3
“ “ paralysis.....	2
Melancholia, acute, simple.....	10
“ subacute.....	3
“ chronic.....	9
“ with epilepsy.....	3
Paresis.....	5
Cerebral syphilis.....	1
Paranoia.....	4
Idiocy.....	6
Imbecility.....	5
Not insane.....	2
Total.....	155

ANNUAL REPORT

— OF THE —

CITY COMMISSIONER

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31, 1887.

REPORT.

CITY COMMISSIONER'S OFFICE—CITY HALL,

BALTIMORE, January 1, 1888.

*To the Honorable the Mayor
and City Council of Baltimore:*

GENTLEMEN:

I have the honor of presenting the annual report of this Department for the fiscal year ending December 31st, 1887, with such comments as may be deemed necessary thereon.

On the 9th day of April the repairing of the city streets was begun, and was continued in full force up to the 10th day of November, at which time it was deemed advisable to shorten the force in consequence of the nearly exhausted appropriation, a few gangs of hands only being continued, to make such repairs as from necessity were required. The custom heretofore established of the employment of twelve gangs was continued—six gangs in the eastern and six gangs in the western section of the city, Calvert street forming the dividing line, Mr. C. P. Kahler, Assistant City

Commissioner, being the General Superintendent for the western section, assisted by Mr. M. Naughton; assistance in the supervision of this work being made necessary in consequence of the very important and, it may be said, arduous duties assigned to Mr. Kahler in the designing and building of new sewers and the management generally of repairs needed to the old ones. It affords me pleasure in saying that, from practical experience and intelligence, as well as the untiring energy displayed on this work, he is eminently qualified to discharge the duties assigned him. The eastern section was, as heretofore, under the supervision of Mr. Christopher Billopp, Assistant City Commissioner. Mr. Newton M. Gray, Assistant City Commissioner, has had charge of repaving with Belgian and asphalt blocks and designing and placing gutter plates, as well as laying flagging for street crossings, and other important work. It is needless to say that his zeal and competency in this, as well as all duties assigned him, are of the highest character.

As the repairs of streets cannot be made general upon the limited appropriation annually allowed, it has, as heretofore, been the aim of this Department to take in hand those streets, or portions of streets, most needing attention, and to repair them in the most substantial manner. I would here add that, in consequence of the rapid growth of the city and the heavy wear and tear upon numerous streets heretofore but sparsely built upon, and but indifferently paved originally, with no repairs whatever upon them since their construction years ago, a largely increased area needing repairs presents itself from year to year, and, consequently,

larger appropriations of money will be needed annually if the city, in this particular class of work, is not expected to retrograde. While our city, within the last few years, has made, and is now making, some progress in the betterment of its streets by substituting improved pavements in place of the so-called cobble stone pavements, which, in reality, are nothing more than ordinary rubble stone, and of such variety of sizes as to render it impossible to make an even or respectable highway for either light or heavy travel, it is to be hoped that ways and means may be adopted in the near future to supplant this rough and deplorably bad class of pavement with Belgian blocks or some other improved method of paving more in accord with the spirit of the age and the necessities of the growing interests and enterprise of a great city like Baltimore. I earnestly commend this matter to the proper authorities for their early consideration. While it is my opinion, based upon observation and inquiry, that the city is in no way behind other large cities in the Union as regards well-kept streets, and beyond doubt in advance of many of them in this respect, yet the most casual observer cannot fail to acknowledge the fact of there still being no small room for improvement.

One of the most serious difficulties encountered in this Department in the repairs of streets is their frequent disturbance from excavations made by various corporate bodies. Foremost amongst these wholesale mutilators of the public highways are the various gas companies, and, I may add, that private individuals, for the purpose of underground drainage, are by no means unimportant factors in the damaging effects upon our

streets. While this may not be intentional upon the part of either of the above-named parties, or of others who may justly be placed in the same category, it is, nevertheless, a fact that it is next thing to an impossibility to get these street destroyers to make such substantial repairs as are necessary to place the streets that they have dug up in the same condition in which they found them. I had occasion in my report of last year to fully set forth this whole matter, and my opinion, then expressed, has in no way undergone any change. I respectfully refer your honorable body to my views, expressed at that time, which, I hope, may serve to show in the future the necessity of at least, before allowing such valuable privileges to these corporations, that they be compelled to place in the city treasury, for every foot of street dug up in the city for their uses, a monied consideration which would at least be commensurate with the damages done in the defacement of its streets.

REPAIRS OF STREETS.

The amount of the appropriation for the work was \$75,000. Of this sum there was expended \$74,911.25. Materials used and work performed by the several repair gangs, by reference to Table D, will be found to be as follows: Whole number of square feet of repaving with cobble stones, 2,233,077; linear feet of kerb reset, 5,949; loads of sand, 31,679; perches of stone used, 4,082½; Belgian block and asphalt block repairs, 13,303 square feet; making the total repairs on streets for the year, 2,246,380 square feet.

Materials used, with amount of money expended:

Pay of Superintendents and laborers.	\$65,798 82
Repairs of Belgian block pavement, by contract	372 02
Repairs of asphalt block pavement, by contract with Maryland Pavement Company..	63 74
Materials and tools of all kinds	8,676 67
	\$74,911 25

RECAPITULATION.

Amount of work done, 2,246,380 square feet.	
Amount of appropriation, \$75,000.	
Amount expended, \$74,911.25.	
Amount expended for labor, including cost of repairs to Belgian block and asphalt block pavements....	\$66,234 58
Cost of materials, also tools of all kinds....	8,676 67
	\$74,911 25

Cost per sq. ft. of cobble-stone pavement, $2\frac{9.46}{1000}$ cts.
 Cost per sq. ft. of asphalt pavement, $27\frac{8.94}{1000}$ cts.
 Cost per sq. ft. of Belgian block pavement, $3\frac{3.46}{1000}$ cts.

REPAIRS OF UNPAVED STREETS.

The usual amount of work was done in the way of graveling, shelling, and repairing unpaved streets, in addition to which the filling up and grading of the Bolton Depot property was done.

There are a number of unpaved streets and roads in the outlying parts of the city which will require shell-

ing during the year. Particularly is this the case on North avenue from Greenmount avenue eastward, which has been partially shelled during the past season. As but few buildings have been erected on this part of the avenue, the paving of its entire length is likely to be deferred for some time to come, and in the meantime it ought to be kept in good condition. This can be done in no other way so economically as by shelling. It will require \$2,500 for this purpose during the coming season.

SHELLING OF STREETS.

The following streets were shelled during the year:

Warner and Dock streets, per Resolution 14, of March 3, 1887:

Appropriation.....	\$500 00
Paid.....	387 10
Balance.....	\$112 90

Ridgely street, per Resolution 26, of March 10, 1887:

Appropriation.....	\$500 00
Paid.....	414 35
Balance.....	\$85 65

Bayard street, per Resolution 17, of March 14, 1887:

Appropriation.....	\$500 00
Paid.....	467 15
Balance.....	\$32 85

The Washington road, per Resolution 16, of March 4, 1887:

Appropriation	\$800 00
Paid.....	793 15
Balance	\$6 85

Eastern avenue, per Resolution 49, of March 31, 1887:

Appropriation	\$700 00
Paid.....	700 00

East Monument street and East Fayette street, per Resolution 53, of March 31, 1887:

Appropriation	\$600 00
Paid.....	600 00

Point lane, per Resolution 104, of May 5, 1887:

Appropriation	\$250 00
Paid.....	249 70
Balance	30

West end of Franklin street, per Resolution 33, of March 19, 1887:

Appropriation	\$100 00
Paid.....	99 41
Balance	59

The Liberty road, per Resolution 23, of March 10, 1887:

Appropriation	\$50 00
Paid	40 51
Balance	\$9 49

North avenue, from Greenmount avenue to Belair avenue, which was only paved ten feet wide on each side, became almost impassable, and shells were spread over the holes to the extent of the means at my disposal.

PAVING OF NEW STREETS.

Table C, appended to this report, gives the names of streets, lanes, and alleys that have been graded, kerbed, and paved during the year, with the names of contractors, prices, and total square feet of paving.

The following streets are under contract, and will be completed early the coming year:

Wolfe street from Belair avenue to North avenue, P. Reddington, contractor; Biddle street from Chester street to eastern city limits, W. R. Weaver & Co., contractors; Chester street from Oliver street to North avenue, P. Reddington, contractor; Ostend street from Light street to Race street, J. P. McGovern, contractor; North avenue from Pennsylvania avenue to western city limits, M. J. Flannery, contractor. The grading and paving of this portion of North avenue, taken in connection with the extensive grading and shelling done by the county authorities on its extension westerly

from the city limits, will afford direct and easy communication between the city and a portion of the county which has been much in need of good roads. The long and difficult hills on both sides of Gwynn's Run, in the Windsor Mill road, can be avoided by this improvement.

IMPROVED PAVEMENTS.

The worn-out and very bad condition of the asphalt block pavement in Calvert street between Baltimore and German streets required its removal. That has been done, and the street repaved with Belgian blocks at a cost of \$1,219.75, which was charged to the Paving Loan of 1920.

South street from Baltimore to German street, which is paved with asphalt blocks, is in very bad condition, and worn out in many places, particularly between and alongside of the car tracks. In order to prevent accidents, it became necessary during the past season to repair it with cobble stones. This asphalt pavement should be removed and Belgian blocks substituted for it, as the traffic in the street is of such a character as to require a pavement of the most substantial and durable kind.

The intersection of Charles and Eager streets, which is paved with asphalt blocks, became so much worn as to require removal, which was done by the Maryland Pavement Company.

On account of that part of Charles street between Monument and Madison streets having been paved without sufficient camber, allowing the water to flow

over the street, it became necessary to construct a gutter one hundred and sixty feet long, which was done by the same company.

The following resolution and ordinances for laying improved pavements were executed during the working season of 1887:

Resolution No. 61, approved March 31, 1887, for repaving the Centre Market, under the Maryland Institute, between Baltimore and Second streets, with sheet granolithic pavement. The work was commenced on May 6, and completed on June 25, 1887.

Appropriation	\$6,250 00
Cost of work.....	6,110 85
Balance	\$139 15

Ordinance No. 64, approved May 11, 1887, for repaving Fulton avenue from the north side of Baltimore street to the south side of Edmondson avenue with asphalt blocks. This work was commenced on June 8, and completed on August 23, 1887.

Paving 9,269 $\frac{7}{10}$ square yards, at \$2.50...	\$23,174 25
Kerbing and incidentals.....	5,013 47
Total cost.....	\$28,187 72

Proportion paid by the city	\$ 9,470 65
Proportion paid by property holders...	18,717 07
Total	\$28,187 72

Cost to property holders per front foot, \$1.40 $\frac{79478}{100000}$.

Ordinance No. 47, approved April 20, 1887, amended by Ordinance No. 58, approved May 6, 1887, to repave Fulton avenue between the south side of Edmondson avenue and the north side of Presstman street with asphalt blocks, and to kerb a space twenty-four feet in width in the centre of the avenue for a public park. This work was commenced early in September and continued up to December 24, at which time operations were suspended on account of the weather. With open weather this work could be completed in about two weeks.

Contracts for the above described works were made with the following named parties:

For laying the granolithic pavement in the Centre Market, the contractor was Mr. Isaac S. Filbert, whose bid for the paving was \$2.50 per square yard.

For repaving and rekerbing Fulton avenue between Baltimore street and Edmondson avenue, and between Edmondson avenue and Presstman street, the contractor was the Maryland Pavement Company, whose bid was as follows: Repaving, \$2.50 per square yard; six-inch kerb, \$1 per linear foot.

The six-inch kerb for parks in Fulton avenue is furnished by Mr. Wm. F. Weller, of Howard county, Md., at eighty-nine (89) cents per linear foot.

GRADES ESTABLISHED.

1887.

March 15—Cannon street from Eastern avenue to Canton avenue.

March 29—Oliver street from Greenmount avenue to North street.

- April 7—Ridgely street from Wooster street to Bayard street.
- April 7—Ridgely street from Wooster street to Ostend street.
- April 7—Wolfe street from Belair avenue to North avenue.
- May 11—Gold street from Division street to Druid Hill avenue.
- May 11—Haubert street from Fort avenue to Clement street.
- May 13—Chester street from Oliver street to North avenue.
- May 25—Hoffman street from Eden street to Bond street.
- June 11—Patapsco street from Hudson street to O'Donnell street.
- June 17—Biddle street from Chester street to Eastern city limits.
- July 6—Biddle street (change) from Cannon street to Potomac street.
- July 18—Hoffman street from Foster street to Cathedral street.
- July 18—John street from Dolphin to Cathedral street, and to Preston street.
- July 18—Mount Royal avenue from Dolphin street to Cathedral street.
- July 18—A 20-foot alley (between Foster and John streets) from Dolphin street to Preston street.
- July 18—A 20-foot alley (between John street and Mount Royal avenue) from Dolphin street to Hoffman street.
- August 3—Parrish alley from Franklin street to Mulberry street.

- September 10—Boyle street from Fort avenue to Clement street.
- September 10—Clement street from Boyle street to Lawrence street.
- September 26—Hope street from Townsend street to North avenue.
- October 17—Hunter alley from Preston street to Hoffman street.
- October 17—Falls road from Maryland avenue to North avenue.
- October 17—Chester street from Chase street to Biddle street.
- October 17—Ostend street from Light street to Race street.
- November 6—Box alley from German street to Lombard street.
- November 10—Carroll street from Cross street to Stockholm street.
- November 15—Kirby's lane from Franklin street to Lanvale street.
- December 7—Cannon street from Oliver street to North avenue.
- December 14—Townsend street from Caroline street to Bond street.
- December 17—10-foot alley about 119 feet east of Fremont street from Lanvale street to Dolphin street.

GUTTER-PLATES.

The following is a statement of the resolutions passed for putting down gutter-plates, and work done under the same, during the year 1887:

Resolution No. 40, approved March 23, 1887, for plates over the east gutter at the intersection of Pratt and Monroe streets:

Appropriation	\$900 00
Cost of work.....	690 24
Balance	\$209 76

Resolution No. 58, approved March 31, 1887, for plates over the east gutter at the intersection of Howard and Barre streets:

Appropriation	\$850 00
Cost of work.....	709 22
Balance	\$140 78

Resolution No. 60, approved March 31, 1887, for granite and iron coverings over the north and south gutters at the intersection of Charles and Eager streets:

Appropriation	\$1,800 00
Cost of work.....	1,790 99
Balance	\$9 01

Resolution No. 59, approved March 31, 1887, for granite coverings over the north gutter at the intersection of Calvert and Eager streets:

Appropriation	\$1,200 00
Cost of work.....	1,199 23
Balance	77

Resolution No. 73, approved April 9, 1887, directs that iron gutter-plates be placed at the following named intersections of streets:

Eutaw and Cross streets; Baltimore and Ann streets; Bank and Chester streets; Lombard street and Duncan alley; Fayette street and Carrollton avenue; Calhoun and Fayette streets; Gough street and Collington avenue; Carrollton and Edmondson avenues; Cathedral and Centre streets; Gay and Forrest streets; Lexington and Fremont streets; Hughes and Johnson streets; Hughes and William streets; York and William streets; Eager and Calvert streets; Eager and St. Paul streets; in front of No. 1 Engine House, Paca street.

The amount appropriated for carrying out the provisions of Resolution No. 73 was \$3,000. Under the said resolution work was executed so far as the amount appropriated would allow, gutter-plates being placed at the following named intersections:

South and west gutters at Eutaw and Cross streets; west gutter at Baltimore and Ann streets; and the west gutter at Fayette and Calhoun streets.

In addition to the above new sets of gutter-plates, all necessary repairs were made upon existing gutters during the year.

Appropriation	\$3,000 00
Cost of work	2,714 00
Balance	\$286 00

The gutter-plates for the year 1887 were furnished by Messrs. James J. Lacy & Co., under contract with the Mayor and City Council, at one and a-half ($1\frac{1}{2}$) cents per pound.

FLAGSTONES LAID IN 1887.

Charged to "Flags and Stepping Stones."

Intersections.	No. of Rows.
Baltimore and Light streets.....	1
Franklin and Mount streets.....	2
Light and York streets.....	4
York and Johnson streets.....	1
Sharp and Montgomery streets.....	1
Light street, at Pier No. 9.....	1
Sharp and West streets.....	1
Fremont and Lee streets.....	1
St. Peter and Otterbein streets.....	1
Columbia avenue and Poppleton street.....	1
Lemon and Bartlett streets.....	2
Fremont and Paca streets.....	1
Park avenue and Laurens street.....	3
Robert and Bolton streets.....	4
Hamburg street and Chestnut alley.....	1
Cross and St. Peter streets.....	1
Sharp and Hamburg streets.....	2
Broadway and Chase street.....	2
Barre and Howard streets.....	1
Light and Barre streets.....	1
Gay and Biddle streets.....	1
Barnes and McDonogh streets.....	1
Preston and Bond streets.....	1
Preston and Ensor streets.....	2

Intersections.	No. of Rows.
Preston and Valley streets	1
Aisquith and Chew streets	3
Watson and High streets	2
Chestnut and Hillen streets	1
McElderry and Aisquith streets	1
Howard street and Armory avenue	1
Spring Garden avenue and Hill street	1
Washington street and Eastern avenue	1
Thames street and Broadway	1
Pratt and Wolfe streets	1
Pratt and Ann streets	1
Durham and Gough streets	1
Broadway and Fairmount avenue	2
Baltimore and Durham streets	1
Pratt and Dallas streets	2
Patapsco avenue and Hill street	1
Fayette and Stricker streets	1
Charles and Barney streets	2
Randall and Patapsco streets	2
Battery avenue and West street	1
Light and Barney streets	2
Wall and West streets	1
Wall and Ostend streets	1
Light street, at Pier No. 6	1
Henrietta street and China alley	1
Warner street and Burgundy alley	1
Washington and Aliceanna streets	1
President street and Eastern avenue	1
Lombard street and Patterson Park avenue	1
Lombard street and Collington avenue	4
McCulloh and Biddle streets	1
Frederick and Second streets	2

Intersections.	No. of Rows.
Bond and Biddle streets	1
Patterson Park avenue and Baltimore street.....	1
Ann and Lancaster streets	1
Pratt street and Madeira alley	1
Biddle street and Central avenue.....	1
Patterson Park avenue and Boyer street.....	1
Lexington near Sharp street.....	1
Greene and Saratoga streets.....	1
Paca and Saratoga streets	1
Madison and St. Paul streets	1
Calvert and Read streets.....	1
St. Paul street and Monument Place.....	2
Lombard street and Hollins alley.....	1
Hollins and Parkin streets.....	1
Pratt and Poppleton streets.....	1
Baltimore and Monroe streets.....	1
Vincent alley and Edmondson avenue.....	2
Greenmount avenue and Belvidere road.....	1
Edmondson avenue near Calhoun street.....	1
Boston and Leakin streets	1
Boston and Chester streets.....	1
Canton avenue and Plattfoote alley.....	1
Boston and Concord streets	1
Aliceanna and Burke streets	1
Patterson avenue and Mount street	1
Lanvale and Fremont streets	1
Myrtle avenue and Hoffman street.....	1
Poppleton and Franklin streets.....	1
McCulloh alley and McMechen street	1
Bolton and Mosher streets	4
Mt. Royal avenue and McMechen street	1
Calhoun and McHenry streets.....	1

Intersections.	No. of Rows.
Aisquith and Jefferson streets.	1
Monument and Bond streets.	1
Eden and McElderry streets.	1
Caroline and McElderry streets.	1
Lexington near Charles street.	1
High near Low street.	1
McElderry and Wolfe streets.	1
Patterson Park avenue and Jefferson street.	2
Bank street and Broadway.	1
Washington and Baltimore streets.	1
Preston and Dallas streets.	1
Cathedral and Howard streets.	1
Paca and Mulberry streets.	1
Gilmor street and Windsor avenue.	1
Patterson Park avenue and McElderry street.	1
Castle and Jefferson streets.	2

Total. 136

Appropriation\$8,000 00

Amount expended 7,709 92

Balance \$290 08

Average cost per row.\$56 69 $\frac{06}{100}$.

The contract for furnishing flagstones and Belgian blocks for street crossings for the year 1887 was awarded to the lowest bidder, Mr. James H. Atkinson, at the following named prices:

Flagstones, 20 cents per square foot.

Belgian blocks, \$1.00 per square yard.

Resolution No. 20, approved March 10, 1887, provides for completing the change in the park kerb at the northern end of Eutaw Place. This work was begun in 1886 and completed, so far as the new kerb line was concerned, in that year. It was found after paying for the kerb that there was not enough money remaining of the amount appropriated to do the necessary repaving, and an appropriation of six hundred dollars was asked for to complete the work in 1887, which amount was provided by the above named resolution. The work was completed in the spring of 1887, and is a decided improvement.

Appropriation.....	\$600 00
Cost of repaving.....	511 75
Balance.....	\$88 25

STREETS AND ALLEYS THROUGH THE OLD BOLTON DEPOT.

By Ordinance No. 51, approved April 21, 1887, Mount Royal avenue from Dolphin street to Cathedral street, John street from Dolphin street to Cathedral street, Hoffman street from Foster street to Cathedral street, one twenty-foot alley from Dolphin street to Preston street, and one twenty-foot alley from Dolphin street to Hoffman street, were graded, kerbed, and paved; and the plat in the centre of Mount Royal avenue was kerbed with six-inch kerbing, as per contract made on September 1, 1887, with James P. McGovern. The cost of this work, amounting to \$6,211.07, will be charged to the Mayor and City Council, and must be provided for in the levy for 1888. This improvement

will afford direct communication between the central portions of the city and Druid Hill Park as soon as the contemplated opening of Mount Royal avenue from Cathedral street to Guilford avenue (or North street) has been accomplished. The city will have about twenty-four hundred front feet of building lots to dispose of.

SEWERS.

The report of Assistant City Commissioner Charles P. Kahler on the condition of various sewers, as well as suggestions in regard to sewers needed to relieve sections of the city which, from time to time, become inundated, displays a thorough knowledge of the situation, and is entirely in accord with my views upon the subject. While much of what Mr. Kahler has said in his report of the present year has heretofore been set forth in various reports emanating from this Department, there are many practical suggestions which will be found in his present report. His practical knowledge and large experience in this class of work renders him well qualified to solve some problems which have been difficult to arrive at under the system which has been generally adopted in the past. First, and in my opinion the very means by which a proper understanding of so important a matter may be had, namely—the accurate calculation of the acreage surrounding the districts to be drained, and at the same time basing the capacity of the sewers to be constructed upon the heaviest known rain-fall which it is possible to obtain from official sources, and also the velocity of the currents of storm-water in accordance with the topography of the district discharging

its waters into the sewers. Again, no sewer should be constructed without a fair margin being allowed in any and all calculations generally employed by even the best engineering skill. Indeed, a thorough capacity of these necessary conduits for relieving certain districts from flood during heavy storms should at all times be amply provided for. This, I regret to say, has not at all times been taken into consideration, so far as the construction of sewers in this city is concerned. Had it been so, such a lamentable failure in many sewers in our city to perform the services required of them would not now exist. The most casual observer cannot fail to see in times of heavy rain-storms the imperative necessity of adhering strictly to the foregoing principles. Another and important feature which should never be lost sight of, is the proper and permanent structure necessary to be had in so important a work of this character—durability, which can only be arrived at by the most careful selection of materials for construction, aided by the best mechanical skill and intelligent and conscientious supervision.

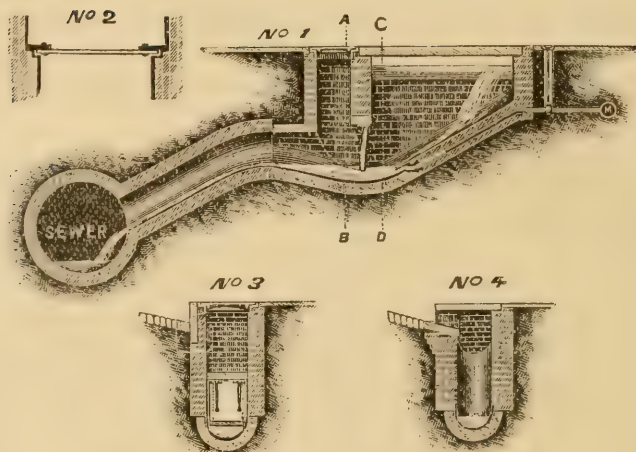
All sewers, be they of greater or lesser capacity, should be so constructed as to resist the ravages of time, and be made to last as long as the city itself, and always with a view to what is frequently spoken of, namely—a general sewerage system. Indeed, all plans noted in this report are gotten up strictly with a view to this end, and may be considered as auxiliaries to any general system which may be adopted in the future. The enormous annual outlay of money to repair the badly constructed sewers of the city should serve, I hope, to bear me out in the views expressed in this report.

THE TRAPPING OF INLETS TO SEWERS.

This, perhaps, has, as much as any other subject connected with the sewerage of cities, occupied the attention of inventors. Many plans have been devised, from time to time, and for which patents have been granted, for the construction of a perfectly sealed trap.

Now, the bad features of all inlets I have yet seen, or know of, are done away with by the simple and comparatively inexpensive contrivance patented by one of the attaches of this office, Mr. Charles P. Kahler. By resolutions of your honorable body, two of these traps have been placed in the inlets to Howard street sewer, at the intersection of Conway and Howard streets, and at the corner of Camden and Howard streets, which are working clearly up to the degree of efficiency claimed for them by the inventor. I have no hesitation in recommending this invention for adoption. Mr. Kahler can explain the principle involved in his trap more fully to those who may call on him than could be done in this report. A cut representing the improved inlet is annexed.

THE KAHLER PATENT INLET.



No. 1—Longitudinal section of Inlet.

No. 2—Section of valve or door with gum packing.

No. 3—Section through A B.

No. 4—Section through C D.

M—Water mains.

PROPOSED NEW SEWERS.

*Monument and McKim Street Sewer, and the District
North of Eager Street Drained by It.*

A portion of this sewer between Monument and Madison streets passes through private property. This should be removed. It is impossible to conceive a greater nuisance than is created by these old and badly constructed sewers which run through

the yards and cellars of dwelling houses. The constantly escaping gases and frequent overflow of storm-water, in consequence of the incapacity of many of these sewers to carry off the same, renders it not only an annoyance, but, beyond doubt, detrimental to health. There should be no time lost in abating nuisances of this character. In this case this can be done by continuing this sewer down Greenmount avenue and Madison street from Monument street to McKim street. A larger sewer than the one now constructed is necessary to carry off the drainage of this district.

Jenkins' Run Sewer in Carter Alley.

The continuation of this sewer, so as to make a connection with the culvert under the Union Railroad, is not only desirable, but a much-needed improvement, and should by all means be constructed the coming season. Not only is this stream a nuisance, but its steep embankments, over which all manner of debris from the surrounding district, as well as from more remote parts of the city, are constantly being dumped, and every rain-fall washes the dirt so deposited down into the bed of Jones Falls. It is safe to say, that thousands of cart loads of this matter finds its way into the latter stream and out into the harbor. Much vacant land, which is now useless for building purposes, would, upon the construction of this much-needed sewer, be filled up and built upon at once, thereby enhancing the basis of taxation, as well as improving the sanitary condition of this section. It is estimated that the cost of this work would be \$37,200.

Continuation of Sewer in Lovegrove Alley.

To connect with proposed sewer to be built by the county north of North Boundary avenue, this should be built as soon as practicable. In order to do so, it will be necessary to condemn Lovegrove alley from Townsend street to North Boundary avenue. When this improvement is made it will abate a nuisance of long standing, and bring into requisition much valuable ground for building purposes.

A. E. SMYRK, Esq.,

City Commissioner:

SIR—I have the honor to submit the following report concerning the sewers of the city.

The nature and location of the work is shown in the following statement.

In accordance with the instructions received from you, I also submit plans and suggestions for sewers for the relief of various sections of the city.

NEW SEWERS AND INLETS.

The nature of the work done, in accordance with ordinances of the Mayor and City Council, is as follows:

Three sections of the "Bloody Run," or northeast branch of Gwynn's Run sewer, as follows: Pulaski street at Edmondson avenue; Pulaski street, Lanvale

street, and Brice alley, as per general appropriation; and across North avenue in Bruce alley, as per Ordinance No. 119, approved 20th October, 1886.

Extension of Low street sewer, as per general appropriation.

Mosher street and Rutter's Run sewers, as per Ordinance No. 13, approved 24th March, 1887.

Inlet northeast corner of Howard and Conway streets, as per Resolution No. 74, approved 10th April, 1886.

Inlet northeast corner of Howard and Camden streets, as per Resolution No. 42, approved 23d March, 1887.

"Bloody Run," or northeast branch of Gwynn's Run sewer.

The grading and paving of Lanvale street from Fulton avenue to the western city limits, of Edmondson avenue from Monroe street to the western city limits, and of North avenue from Pennsylvania avenue to the western city limits, necessitated the construction of three sections of this sewer before those streets could be completed.

This sewer is circular in shape, built in a cradle of stone. The invert, to the height of one-fourth of the diameter of the sewer, is built of blocks of Port Deposit syenite nine inches deep; the balance of the invert is of brick, two courses, nine inches thick; the arch is of brick, three courses, thirteen and one-half

inches thick, backed up with a sufficient weight of stone masonry, to prevent it from giving way or settling.

In accordance with Ordinance No. 52, approved 29th April, 1886, two sections of this sewer were commenced in that year and completed during the past summer—one in the bed of Pulaski street at Edmondson avenue, and the other in Lanvale street.

The section in Pulaski street is one hundred and four feet long, exclusive of the wing-walls, with a diameter of eleven feet, a grade of ten inches per one hundred feet, and a capacity to discharge one thousand nine hundred and sixty cubic feet per second. In consequence of the heavy fill (about thirteen and one-half feet) above the top of this section of sewer, and the great danger of the settlement of the embankment, I had four temporary wooden inlets constructed. These inlets are connected with the sewer by cast-iron pipes, twenty inches in diameter, permanently built in the masonry of the sewer.

The section in Lanvale street begins at a point in Pulaski street twenty-nine feet south of the south building line of Lanvale street, and extends thence in Pulaski street, Lanvale street, and Brice alley, to a point ten feet north of the north building line of Lanvale street. It is two hundred and sixty-five feet long, exclusive of the wing-walls, with a diameter of ten feet six inches, a grade of ten inches per one hundred feet, and a capacity to discharge one thousand seven hundred and thirty cubic feet per second.

At the intersection of Pulaski and Lanvale streets there are four inlets built of brick on a stone flag bottom that connect with the sewer by cast-iron pipes twenty inches in diameter.

Amount of appropriation expended to December 31, 1886.....	\$ 7,547 67
Amount appropriated in general appropriation bill for 1887.....	13,475 66
	\$21,023 33
Total amount expended for these sections.	20,997 01
Balance.....	\$26 32

The section across North avenue in Bruce alley is one hundred and forty-five feet long, exclusive of wing walls, with a diameter of eight feet, a grade of ten inches per one hundred feet, and a capacity to discharge eight hundred and five cubic feet per second. There are to be four inlets constructed to empty into this section. The cast-iron pipes, twenty inches in diameter, to connect these inlets with the sewer, have been placed and built in the sewer. These inlets cannot be completed this year, as the contractor has not completed the filling over the sewer, which is very heavy, being about twenty feet above the top of it.

Amount of appropriation.....	\$5,000 00
Amount expended.....	4,984 21
Balance.....	\$15 79

Great care was taken to construct these sections of this sewer in the most substantial manner and of a sufficient capacity to discharge the storm-water from every section of the district drained by it. During the heaviest rain-storms of the past summer it ran about five-eighths full.

EXTENSION OF LOW STREET SEWER.

About one hundred and seventy-five feet long and three feet in diameter of this sewer, and three inlets, were completed during the past summer—one inlet on the north side of Mott street, west of Gay street; one on the west side of Gay street, north of Mott street; and one on the east side of Gay street, opposite Mott street. This sewer relieves that part of Ensor and Gay streets between East and Mott streets.

Amount of appropriation	\$1,500 00
Amount expended	1,456 67
Balance	\$43 33

EXTENSION OF MOSHER STREET AND RUTTER'S RUN SEWERS.

This work is the extension of the brick sewer in Mosher street (which discharges the water from the John and McMechen streets and Druid Hill avenue sewers), and the sewer under the North Baltimore Passenger Railway Company's stables, to connect with the culvert under the Northern Central Railroad tracks.

Owing to the great height (about thirty-five or more feet) to be filled above the top of these sections of

sewers, so as to conform to the grades of surrounding streets, extra precautions were taken to construct them in the most substantial manner.

The abutments or side-walls of the connection and the two branches are of Falls road stone, laid in hydraulic cement. The bottom is of blocks of Port Deposit syenite, grouted with hydraulic cement, and has the form of a segment of inverted arch; and the arch is of good hard brick.

The connection is twelve feet wide and averages ten and one-quarter feet high, with an area equal to one hundred and four square feet. Its abutments are four feet thick, and average five feet eight inches from the bottom to the spring of the arch. The arch is elliptical in shape, has a rise of four feet, and is of three courses of brick, thirteen and one-half inches thick, backed up with a sufficient weight of masonry to prevent its giving way or settling.

The two branches are seven feet wide by seven feet high each, with an area equal to forty-five and twenty-three-one hundredths square feet; their abutments are two feet six inches thick, and four feet six inches high from the bottom of the sewer to the spring of the arch. The arches are elliptical in shape, have a rise of two feet six inches, and are two courses of brick (nine inches) thick, with a sufficient backing of masonry.

There are two inlet wells, three feet square at the bottom, increasing to four feet at the top, built in the connection, to provide for the water from the inlets on North avenue, the water of which was formerly carried

off by a small sewer to Rutter's Run, but which was entirely washed away, and also for the drainage from the surrounding section. From the inlet connections, the water will have a fall of about twenty-six feet to the bottom of the wells; therefore large stone flags ten inches thick were placed in the bottom; and at intervals of six feet, starting from the bottom, stone breaks project in the wells to break the fall of the water. The openings from the wells into the sewer are five feet high by three feet wide, giving a sufficient area to discharge the water from the surrounding section.

It will be necessary to build a man-hole in each of the branches, near where they connect with the old sewers, for the purpose of repairing and cleaning them out.

The connection, with a portion of the inlet wells; the branch connecting with the sewer under the North Baltimore Passenger Railway Company's stables, and a part of the branch connecting with the Mosher street sewer, have been completed, as far as the appropriation would permit. There remains to be completed a portion of the inlet wells, part of the man-hole in the branch connecting with the sewer under the North Baltimore Passenger Railway Company's stables, and about one hundred and eighty-four feet of the brick arch and one hundred and fifty-three feet of the abutments, and the man-hole of the branch connecting with the sewer in Mosher street.

There will have to be constructed a temporary wooden sewer two hundred and twenty feet long (a portion of

it to be supported by trestles) from the inlets in North avenue. This temporary sewer is necessary from the fact that all the drainage from a portion of McMechen street, the lower portion of North avenue, as well as all the storm-water which escapes by the inlets in the upper part of the avenue, has been turned through private property to empty into Rutter's Run.

Ordinance No. 13, approved 24th March,	
1887, appropriates	\$6,500 00
Amount expended	6,452 97
Balance	\$ 47 03
Amount required to complete sewer	\$4,900 00
Amount required to construct wooden sewer.	600 00
	\$5,500 00

Resolutions No. 74, approved 10th April, 1886, and No. 42, approved 23d March, 1887, authorized the construction of two inlets—one at the northeast corner of Conway and Howard streets, and the other at the northeast corner of Camden and Howard streets—to discharge into the Howard street sewer.

The construction of these inlets was very necessary, so as to remove the gutters on the east side of Howard street across Conway and Camden streets, which were, more especially in winter, almost impassable and liable to cause accidents.

The inlet used is what is known as the "Kahler patent." This inlet prevents the escape of gases, presents the smallest space for the collection of sediment,

at the same time discharges the maximum quantity of storm-water, and requires no cleaning out. The tests made of them proved that they accomplished all that was claimed for them.

Appropriations for these inlets.....	\$700 00
Expended.....	684 41
Balance.....	\$ 15 59

REPAIRS OF SEWERS AND INLETS.

The several heavy rain-storms during the past summer caused considerable damage to the old sewers and inlets in various sections of the city. It is only owing to constant care and watchfulness that the damage was not greater. The principal breaks occurred in the following named locations: ●

In Morris alley, near McMechen street, at the point where the water from Druid Hill avenue sewer discharges into the McMechen street sewer, there was a bad wash-out about fifty feet in diameter and twenty-five feet deep.

The McMechen street sewer is an old stone sewer, poorly constructed, and of a capacity entirely inadequate to sustain the heavy strain put upon it, or to discharge the large volume of storm-water from the section which it drains, in consequence of which the floor and part of the abutment and arch under the man-hole located at this point gave way, leaving a large opening through which several hundred yards of earth sank from around the man-hole and washed

down the sewer into Jones' Falls, leaving the man-hole hanging in a very dangerous condition, liable to fall at any moment and choke the sewer. The six-inch water main in Morris alley and portions of the fencing belonging to the adjoining property (the earth having been washed out from under it) broke down, the debris getting jammed in the opening around the man-hole. Had the man-hole fallen and choked the sewer, incalculable damage, and perhaps loss of life, would have occurred along a portion of the line of Druid Hill avenue sewer, more especially in the neighborhood surrounding the intersection of Druid Hill avenue and Laurens street, *as the water would have had to rise to the height of about seven feet above the intersection before it would have found an outlet to flow over the surface, from the basin of which this intersection is the lowest point.* For several years past, each year it has been flooded, from the incapacity of the sewer, putting the residents of the neighborhood to great inconvenience. Measures were at once taken to properly secure it, so as to prevent accident. The man-hole was then taken down and the debris removed from the hole; the break was repaired with heavy masonry and the man-hole rebuilt; the work was pushed night and day to completion; and, although there were several heavy rains during the time it was in progress, it was completed without accident.

At the inlet-well in North avenue, west of the Mount Royal entrance to Druid Hill park, a wash-out, similar to the one at Morris alley, near McMechen street, occurred. Upon a careful examination, over three hundred feet of sewer under North avenue, into which the water

from this well discharges, was found to be in a dangerous condition; and under the inlet-well in North avenue, east of Mount Royal avenue, which discharges its water into the same sewer, it was found that the bottom was washed out and a portion of the abutment and arch had given way. The depth (about twenty-three feet) that this work was below the surface of the street, and the difficulty in getting the material down the inlet-wells, there being no man-holes by which to enter this sewer, made this work troublesome to handle. It was repaired in the most substantial manner. A man-hole should be constructed into this sewer in North avenue.

There was a bad break in Chatsworth Run sewer near the intersection of Penn and Dover streets, where the new section of sewer connects with the old one. The capacity of the old sewer being too small to discharge the volume of water which reaches this point, the pressure of the water during the storm of July 21st lifted about forty-three feet in length and ten and a-half feet in width of the arch. A part of this was dropped in the sewer, and some large pieces were thrown some distance in Penn street, below the break. This was rebuilt at once; and, as the extrados, or top of the arch, was too close to the surface of the street to permit of its being covered with a sufficient weight of earth to withstand the pressure, it was weighted down with a solid mass of masonry in such a manner as to preclude the possibility of its again bursting at this point.

At the intersection of German and Penn streets, where the Pine street sewer empties into the Chats-

worth Run sewer, the bottom was washed out of the Chatsworth Run sewer, owing to the fact that the bottom of the invert of Pine street sewer was built above the bottom of the Chatsworth Run sewer. Large flags were laid in place of the blocks for the water to fall upon, which will prevent any future trouble at this point.

There were other minor breaks along the line of this sewer, which were all repaired.

At the foot of Howard street there was a very serious wash-out. The earth was washed from the top and sides of the Howard street sewer, which discharges into the Spring Gardens at this point. This was repaired by constructing a bulkhead at end of the street forming the head of the dock, and also two wooden conduits to discharge the surface water. The street was then filled in.

At the end of the paving on McHenry street, where it is intersected by Bentalou street, a bad wash-out occurred, by which the old chute and a portion of the street was washed away. As a considerable amount of water collects at this point, a larger chute was constructed, so as to prevent, if possible, any trouble in the future. The street was then filled in.

At the time of the improvement of the old Harford Run sewer, an inlet with a terra-cotta pipe connection was constructed from Spring alley, between McElderry and Jefferson streets, into the sewer. This was found to be entirely inadequate to discharge the storm-water, in consequence of which the yards and basements

of the adjoining property were flooded. This was removed and a larger one was constructed of brick.

The sidewalk around the inlet at the northwest corner, as well as the sidewalk at the southwest corner of Charles and Lanvale streets, was washed out, the water overflowing into the Northern Central Railroad Company's property, the inlets being entirely inadequate to discharge the large accumulation of storm-water from this intersection.

A plan will be suggested for the relief of this part of Charles street, as well as the balance of it to North avenue, as it is almost impassable in only an average rain-fall.

A considerable amount of repairs was done to Central avenue sewer, south of Holland street. Upon examination it was found that the cobble-stone bottom had been washed out and the abutments given way in a number of places. It was repaved with stone blocks nine inches in depth, and the abutments securely under-pinned. There remains now a considerable amount of work to be done to this sewer to put it in proper repair.

There were also some general repairs done to Schroeder's and Chatsworth Run sewers.

The sidewalk of Union square, on the North side of Lombard street, between Stricker and Gilmor streets, has caused a great deal of complaint. The ground in this neighborhood is full of springs, the water from which rises to the surface, causing the sidewalk to be

almost impassable, more especially in freezing weather, when it is covered with ice. This was temporarily relieved by blind-ditching the sidewalk, the water discharging through a hole in the kerb. A pipe should be laid in Lombard street from Carey-street sewer, to connect with the well under the sidewalk, on the north side of Lombard street, about mid-way of the square between Stricker and Gilmore streets. This would entirely obviate the trouble complained of; and, from a sanitary point of view, would be of great benefit to the neighborhood.

The locations of the repairs done to the different sewers, the drain-boxes newly constructed and repaired, and the old inlets trapped, are shown in the following table:

REPAIRS OF SEWERS.

Central Avenue Sewer.

Man-hole between Holland and Fayette streets.

Holland to Fayette street.

Man-hole between Fayette and Baltimore streets.

Fayette to Baltimore street.

Man-hole between Baltimore and Lombard streets.

Baltimore to Lombard street.

Lombard to Pratt street.

Man-hole near Pratt street.

Pratt to Gough street.

Gough to Bank street.

Orleans street.

Inlet northwest corner Central avenue and Jefferson street.

Inlet northeast corner Central avenue and Orleans street.

Inlet northwest corner Central avenue and Baltimore street.

Inlet southeast corner Central avenue and Fayette street.

Inlet southwest corner Central avenue and Granby street.

Inlet northwest corner Central avenue and Holland street.

Inlet Central avenue and Gough street.

Inlet south side Eastern avenue, between Central avenue and Eden streets.

Inlet north side Eastern avenue, between Central avenue and Eden street.

Inlet Central avenue and Pratt street.

Inlet Central avenue and Lombard street.

Inlet Central avenue and May street.

Inlet Central avenue and Mullikin street.

Inlet Spring alley, between McElderry and Jefferson streets.

Chatsworth Run Sewer.

Penn and Portland streets.

Little Josephine and Pine streets.

Penn street, near Dover street.

Cider alley.

Oxford street between Pennsylvania avenue and Argyle avenue.

Penn and German streets.

Vine and Pine streets.

Man-hole Greenwillow street, near Myrtle avenue.

Vine, near Pine street.

Northwest corner Saratoga and Pearl streets.
Inlet Barre, near South Paca street.
Inlet Pine street and Pinn alley.
Inlet Pennsylvania avenue and Hoffinan street.
Inlet northeast corner Arch and Lexington streets.
Inlet Mulberry street and Myrtle avenue.
Inlet Saratoga street and Myrtle avenue.

Schroeder's Run Sewer.

Inlet Raborg and Schroeder streets.
Inlet Saratoga street and Carrollton avenue.
Inlet southeast corner Calhoun street and Rice alley.
Inlet southwest corner Calhoun and Lanvale streets.
Inlet Harlem avenue and Calhoun street.

Monument and McKim Street Sewer.

Monument to Madison street.
Monument street and Harford avenue.
McKim and Madison streets.
Greenmount avenue and Monument street.
McKim and Eager streets.

Sundry Sewers and Inlets.

Inlet Chew and Chester streets.
Inlet Fulton avenue and Baker street.
Inlet northeast corner Broadway and Aliceanna street.
Inlet northwest corner Lombard and Front streets.
Inlet southwest corner Buren and Madison streets.
Inlet northwest corner Buren and Madison streets.

Inlet northeast corner Lombard and Eden streets.
Inlet southeast corner Canton and East Falls avenues.
Inlet northeast corner Broadway and Thames street.
Inlet northeast corner Eden and Pratt streets.
Inlet Gay street, near North avenue.
Inlet Pennsylvania avenue and Sewell street.
Inlet Pratt and Light streets.
Buren and Madison streets.
Washington and Aliceanna streets.
Pratt street and Spears' wharf.
Inlet Franklin and Courtland streets.
Man-hole John and McMechen streets.
Washington and Aliceanna streets.
Calhoun alley, south of Pratt street.
Inlet Light and German streets.
Inlet Pratt and President streets.
Morris alley and McMechen street.
Hammond alley and Albemarle street.
Inlet Fayette and High streets.
Light, near Pratt street.
Inlet Light and Pratt streets.
Inlet Gay, near Front street.
Inlet Greenmount avenue and Hoffman street.
Inlet Hanover and Lombard streets.
Pennsylvania avenue and Lafayette Market.
Inlet Hillen and Front streets.
Washington and Aliceanna streets.
Inlet Charles and Lanvale streets.
Lafayette avenue, near Payson street.
Man-hole Morris alley, near McMechen street.
North avenue, near Mt. Royal avenue gate.
North avenue, near McMechen street.
North avenue, between Potomac Railroad tunnel and
Mt. Royal gate.

North avenue and Oak street.

Inlet Chestnut street and Necessity alley.

Inlet southeast corner Fayette and High streets.

Inlet east side Chase-street bridge.

Broadway, between Thames street and Ferry wharf.

OLD INLETS THAT WERE TRAPPED.

Northwest corner of Baltimore and Durham streets.

Northeast corner of Baltimore and Wolfe streets.

Southeast corner of Baltimore and Wolfe streets.

Southeast corner of Baltimore and Ann streets.

Southeast corner of Eager and Ann streets.

Northeast corner of Eager and Ann streets.

Southwest corner of Fairmount avenue and Wolfe street.

Northwest corner of Fairmount avenue and Wolfe street.

Southeast corner of Fairmount avenue and Wolfe street.

Northwest corner of Wolfe street and Fuller alley.

Southeast corner of Wolfe street and Fuller alley.

Northwest corner of Carey and Saratoga streets.

Southwest corner of Carey and Saratoga streets.

Southeast corner of McMechen street and Foster alley.

Northeast corner of Pennsylvania avenue and Townsend street.

Southeast corner of Pennsylvania avenue and Townsend street.

Pennsylvania avenue, near Townsend street.

Southeast corner of McKim and Eager streets.

WOODEN SEWERS OR DRAIN BOXES.

	Length.	Width.	Height.
1 at Marshall, near Ostend street.....	8	6	1
1 at Eden and Federal streets.....	175	1	1
1 at Bentalou and McHenry streets.....	80	60	1.6
1 at Fulton avenue, near Eagle street...	60	2	1
1 at Ridgely and Bayard streets.....	48	2	1
1 at Falls road, near North avenue.....	60	2	1
2 at Orleans and Luzerne streets (each)..	116	3	2
1 at Eagle street and Addison alley.....	56	10	2
1 at Chester and Townsend streets.....	76	3	2
1 at Greenmount avenue and Belvidere street	32	5	1½
1 at Bond and Oliver streets.....	120	3	3
2 at foot of Howard street.....	125	2	2
1 at Wolfe and Townsend streets.....	140	2	2
1 at Philadelphia road and Luzerne street	40	5	5
1 at Fayette and Luzerne streets.....	60	1	1
1 at Wolfe and Townsend streets.....	120	1	1
Addition to Chester and Townsend streets.	20	3	1

SEWERS ON WHICH IMMEDIATE REPAIRS ARE REQUIRED
TO PREVENT ACCIDENT.

A section of the old Harford Run sewer, which is now known as Central avenue sewer, about one hundred feet long, at Orleans street, is in a very dangerous condition. The abutments have given way on both sides, and the arch settled. It is liable to fall in at any time. The Northern Central Railroad Company's tracks pass along over the west side of this sewer at

this point. They were at once notified to secure them, which they did. The arch has settled nine inches, if not a foot, since 1876. This work will have to be done as soon as possible. The only remedy is to tear it out and rebuild it, as it has gone too far to be remedied in any other way.

The stone sewer in Lovegrove alley, from Jones' Falls to a point between Townsend street and North avenue, will require a considerable amount of repairs during the coming year. The wooden bottom is giving way. It will be necessary to remove this, underpin the abutments, and replace it with stone blocks laid in cement. This cannot be done too soon, as this sewer is very useful; and, later on, as the vacant ground in this district is built upon, will be required to act to its fullest capacity.

The Mosher and John streets sewer, which discharges the water from the McMechen street and Druid Hill avenue sewers, at a point in the bed of Mosher street, east of Mt. Royal avenue, and thence into Jones' Falls, is in bad condition. This sewer, which is of brick, circular in shape, five feet six inches in diameter, with a grade of $2\frac{3}{10}\frac{7}{10}$ feet per one hundred feet, and about nine hundred and seventy feet long, should have been constructed of such a capacity and in such a manner as to stand whilst the city lasts; instead of which it has scarcely capacity sufficient to discharge one-half the volume of water from the district it has to drain; and, although only about fourteen years old, having been built in 1873, the invert is fast cutting out, holes already being cut in it. The difficulty and expense

attending the repair of this sewer will be very great, from the fact of its being a very considerable depth (about forty-five feet) below the surface of the streets, and having a constant flow of water through it, as well as the danger of the sudden rise of the water in time of a rain. This sewer furnishes as good an example as is needed to demonstrate the fact that too much care cannot be taken in the construction of this character of work.

Druid Hill avenue sewer, either for the want of proper backing, or else from a bad foundation, has given way and opened at the key, in some places more than half an inch, from a point in Druid Hill avenue, near Laurens street, to within a short distance of North avenue. This sewer will require watching.

The Monument and McKim streets sewer will require a considerable amount of repairs. Some portions of it are in very bad condition.

Schroeders' and Chatsworth Run sewers will also require some repairs.

PROPOSED NEW SEWERS.

In accordance with your instructions to examine into the condition of the various districts of the city requiring sewerage, either to relieve them from the overflow of storm-water, or for sanitary or other purposes, and to recommend plans for the same, I beg leave to submit the following report:

A sewer for the relief of Charles street from Lanvale street to North avenue. The plan proposed is as fol-

lows: To construct a sewer in North avenue from the Lovegrove alley sewer (which crosses North avenue) to Charles street, connecting with two large inlets to be constructed at the intersection of the east and west curbs of Charles street with the north side of North avenue. These inlets would take in a large portion, if not all, of the water which now passes down Charles street from north of North avenue, and which should have been turned into the run which discharges through Lovegrove alley sewer at some point north of North avenue.

A sewer to discharge the large accumulation of water from the intersection of Dolphin street and Mt. Royal avenue. Plans for this are in preparation.

A sewer for the relief of North avenue, west of Mt. Royal avenue, and the district drained by the Mc-Mechen street and Druid Hill avenue sewers. The following plan is proposed for this improvement: To construct a sewer by tunnel from Jones' Falls, under the beds of Townsend, John, and Mosher streets, Linden avenue and Laurens street, to connect with the Druid Hill avenue sewer at the intersection of Druid Hill avenue and Laurens street; and from the intersection of Linden avenue and Laurens street a lateral sewer should be constructed in the beds of Laurens street and Park avenue to North avenue. This lateral sewer should be of a capacity to discharge all the drainage from the district west of Park avenue, which is now drained over the surface by North avenue.

A sewer in Cathedral and Preston streets, from Madison avenue to Hoffman street, for the relief of

Camel alley, which is flooded during every heavy rainfall.

A sewer in Light street, from West street to Light street wharf, for the relief of a portion of the district drained by the Race street sewer.

Chatsworth Run System.

Sewers for the relief of the section drained by Chatsworth Run sewer as follows:

1. By constructing an intercepting sewer in Eutaw street from the Spring Gardens to Fremont street, thence in Fremont street to connect with the present Chatsworth Run sewer in Columbia avenue. The section in Eutaw street should be of a capacity to also receive the water from Eutaw street north of Fremont street.

2. When Penn street, which is now in process of condemnation, is opened from the intersection of Columbia avenue and Fremont street to Haw street, to construct a sewer of sufficient capacity from the present sewer at the intersection of Fremont street and Columbia avenue, in the bed of Penn street as newly opened, connecting it with the new Penn street sewer near the intersection of Penn and Dover streets. This would remove this portion of Chatsworth Run sewer entirely from under private property.

3. By diverting the water of Schroeder's and Carroll's Run from the present mouth of Chatsworth Run sewer to the bed of a street in which it is more practicable

to construct a sewer of sufficient capacity to discharge them, as the grades of the streets in this neighborhood are but a few feet above tide-water, not having sufficient height to give head-room to construct a sewer of a capacity to discharge the large accumulation of storm-water from this point.

This would relieve that portion of this district south of Baltimore street from any future danger of being flooded; and proper means could then be provided for the relief of the district north of Baltimore street; whilst under the present conditions any effort made to relieve the upper district would only increase the danger in the lower one. A careful survey was made of this district, and the calculation of the capacity of these sewers based upon the number of acres to be drained and the rain-fall.

Schroeder's Run System.

Plan for the continuation of Schroeder's Run sewer from its present out-fall on the south side of the Baltimore and Ohio Railroad bridge over Carey street to the Spring Gardens.

The water which discharges from this sewer runs in a very irregular course until it meets Chatworth and Carroll's Run at the foot of Scott street. As I have heretofore said, in speaking of Chatsworth Run, the union of these streams causes the flooding of that neighborhood during heavy rain-storms.

The plan I would recommend is, that the following-named streets be condemned and opened, and their

grades established: Bush street from the Spring Gardens to a point where Calhoun street (if it were continued south, as shown on Poppleton's map of the city,) would intercept it, and Calhoun street from this point to Herkimer street, and Herkimer street from Calhoun to Wooster street. Then to construct a sewer in the beds of these streets from the Spring Gardens, to connect with the present sewer at the south side of Carey street bridge, of a capacity to discharge the water from the district drained by Schroeder's as well as Carroll's Run, which crosses Washington avenue at Bush street. I have selected these streets from the fact that their grades not having been fully established, they could be made of a height sufficient to accommodate a sewer of a capacity necessary to discharge all the water from these districts.

The sewer for the relief of the district drained by Carey street sewer, heretofore proposed to be constructed in the beds of Calhoun and Ramsay streets, to discharge into Carey street sewer at the intersection of Ramsay and Carey streets, could be continued in Calhoun street and discharge into the new sewer at the intersection of Calhoun and Herkimer streets, furnishing a better and more direct route than the one proposed.

Some changes have been made in the plans proposed for the relief of the district drained by Schroeder's Run sewer north of Pratt street. The first plans only contemplated constructing the proposed sewer to the intersection of Franklin and Calhoun streets, with laterals to the higher ground. Careful observation,

however, has shown that it will be necessary to continue the proposed sewer in the bed of Calhoun street to Lanvale street, thence in Lanvale street to Stricker street, and thence in Stricker street to Patterson avenue. It will also be necessary in several streets to construct lateral sewers from this sewer to receive the water from the high ground east and west of it.

The section of this district in which the present Schroeder's Run sewer north of Pratt street is located could then be improved, by having Arlington avenue condemned and opened from Fayette to Lexington streets; then to construct a sewer from the present Schroder's Run sewer at the intersection of Pratt street and Arlington avenue in the beds of the following-named streets: In Pratt to Schroeder street, in Schroeder to Fayette street, in Fayette street to Arlington avenue, in Arlington avenue to Saratoga street, and in Saratoga street to connect with the present sewer at the intersection of Carrollton avenue and Saratoga street. This would remove the sewer entirely from under private property, enhancing the value of it, and relieving it of a nuisance which should have been removed long since, at the same time relieving the city of the constant trouble and expense which it has been subjected to on account of this sewer.

The sewer in Baltimore street, from Carey to Gilmor street, should be continued one square west, to the west side of Mount street, and two inlets constructed to discharge into it—one at the northwest and the other at the southwest corner of Baltimore and Mount streets. This would relieve Baltimore street from Carey to

Stricker, which is flooded during every heavy rainfall. This is a very much-needed improvement, as Baltimore street is a business street.

The following-named streets, which have been condemned, or are in process of condemnation, and which, in a short time, will require to be graded and paved, will require sections of the northeast branch of Gwynn's Run sewer to be constructed in them :

Franklin street, from Smallwood to Pulaski street.

Pulaski street, from Franklin street to Edmondson avenue, and from Edmondson avenue to Lanvale street.

Tennant street, at the intersection of Payson street.

Presstman street, from Monroe street to Addison alley.

Fulton avenue, from Baker to Presbury street.

This last section is very necessary, from the fact that Fulton avenue cannot be completed until it has been built.

If means could be provided to construct this sewer at once, it would be a great saving to the city, as wherever a section has to be constructed it will be necessary to build retaining and wing walls to protect the ends of it. This would not be required if the whole work was completed and no gaps left.

Investigations of the questions of sewerage in this city in years past have been based upon incorrect data. The conditions existing in other cities have been heretofore assumed as the basis of these investigations.

The most important is the general grades of streets, which in this city are far heavier than in any of those presented as examples. The quantity of water reaching any sewer within a given time will depend entirely upon the street grades; therefore, it becomes obvious that the capacities of sewers ought to be increased as the grades of the streets become heavier, showing why the sewers recommended are much larger than those presented in former reports.

As the instructions I received from you when placed in charge of this work were very positive, that whatever plans I recommended should be with reference to a general system of sewerage for the whole city; and also to calculate them of a capacity to discharge all the water which might be thrown into them, even in excessive rain-falls; more especially in those sections where, from the manner in which the grades of streets have been established, basins are formed, into which all the drainage of these sections is concentrated, and from which there is no outlet for the water except by sewers, should they at any time gorge and overflow, the water would rise until it found an outlet over the surface, and, as a natural consequence, flood them and cause incalculable damage; I therefore based my calculation on the average maximum rain-falls, with a proper allowance added thereto for the increased velocity of the water flowing to the sewers, over the surface of streets with heavy grades, numbers of which exceed five feet per one hundred feet, and obtaining, as near as possible, a uniformity of grade and shape.

Respectfully submitted,

CHARLES P. KAHLER,
Assistant City Commissioner.

BRIDGES.

The bridges have received as much attention as the means at my disposal would allow.

Harman's bridge has received a new floor.

Light street bridge has received the average amount of new flooring. The "draw" has received extensive repairs, and is now in better condition than it has been for a long time past. A new engine has been purchased, and the engine-house enlarged; and gasoline lamps have been placed on piles driven outside of the bridge on both sides, seventy-five yards apart, affording much protection to travel on dark nights. A new steam boiler is needed, and should be erected as early as practicable. The cost of maintaining this bridge will continue to increase from year to year, as the travel is continually growing larger, and its foundations wearing out. At least \$3,000 ought to be appropriated to defray the city's proportion of the cost of maintenance for 1888.

The machinery of the drawbridge, near the outlet of Jones' Falls, has received attention during the year.

A new wing-wall has been built upon piles at the foot of Ridgely street, the old wall and a portion of the street having been washed out by floods.

Argyle avenue bridge (over the Baltimore and Potomac Railroad), sidewalks recovered, and new joists put in.

Maryland avenue bridge, sidewalk recovered, and new joists put in.

North street bridge, sidewalks repaired.

North avenue bridge, ordinary repairs to sidewalks and driveway.

Preston street bridge, bottom floor laid new and top floor relaid.

Chase street bridge, new floor laid on one end.

Madison street bridge, ordinary repairs upon floor.

Monument street bridge, both bottom and top floors laid new on one side.

Centre street bridge, both bottom and top floors laid new, and new sidewalk.

Bath street bridge, ordinary repairs upon floor.

Hillen street bridge, both bottom and top floors laid new, and sidewalks repaired.

Fayette street bridge, sidewalks repaired.

Baltimore street bridge, sidewalks repaired.

Lombard street bridge, both bottom and top floors laid new.

Eastern avenue bridge, sidewalks repaired.

Canton avenue bridge, sidewalks repaired.

Washington road bridge, new top floor.

Aliceanna street bridge, new top floor.

Lancaster street bridge, ordinary repairs upon floor.

Boston street bridge, sidewalk repaired.

Leadenhall street bridge, ordinary repairs upon floor.

Bridge corner Jackson street and Fifth lane, destroyed by floods, was rebuilt.

HARFORD RUN SEWER.

On entering upon the duties of the office of City Commissioner in the early part of 1886, I found that the contract for the building of this sewer under the bed of Patapsco street had been made by my predecessor; but that, owing to the proceedings of the Commissioners for Opening Streets in the matter of the opening and condemnation of Patapsco street having been set aside, the city was without any title to the bed of Patapsco street, and, therefore, could not give the contractors the requisite permission to enable them to execute their contract. As very great delay would take place before any new proceedings for the condemnation of the street could be completed, and as there was a pressing necessity for the speedy construction of this sewer, it was determined, after consultation with the Mayor and City Solicitor, to endeavor to obtain, by negotiation with the respective owners of the property lying in the bed of Patapsco street, a title to that street; and the City Council having passed ordinances vesting in the Mayor and City Commissioner the requisite authority for this purpose, we were able, with the active assistance and co-operation of the City Solicitor, to obtain, upon fair and reasonable terms, from the respective owners of the bed of Patapsco street, from tide-water up to McEl-derry street, agreements to convey to the Mayor and City Council of Baltimore the bed of said street for all street purposes, reserving the right to construct therein all such sewers as the city should think proper to construct therein. As a part of the same arrange-

ment, certain suits, which had been begun against the city for heavy damages, growing out of the use of Harris' Creek, south of Monument street, for carrying off the waters of Harford Run and the sewage of sewers running into it, were agreed to be abandoned. The late Mayor and the City Solicitor concurred with me in believing that proper regard for the interests of the city made it necessary to do what was done toward acquiring the right of way for this sewer, as very great and serious damage to the city was thereby avoided.

This extensive and important improvement, which has been pushed toward completion by the contractors, Messrs. Jones & Thorne, is directly under the supervision of Civil Engineer Charles A. Hook, Esq., whose report, following this, as to extent and character of the work performed up to the present time, meets with my entire approval, and is in every way a guarantee of his entire ability to complete the work in a satisfactory manner to all concerned.

CAPT. A. E. SMYRK,

City Commissioner:

DEAR SIR—I respectfully submit, for your consideration, my report upon the progress of Harford Run sewer, which is now under contract with Messrs. Jones & Thorne for completion. This work is divided into two sections; one is known as the northern extension of Harford Run sewer, the other as the southern extension of same. Both contracts were awarded to Messrs.

Jones & Thorne (the lowest responsible bidders) by his Honor, the present Mayor, October 21, 1885. The work embraces the extension of the Harford Run sewer, north and south, as follows: To the limits of the city on the north and to the north building line of Boston street, where Harris' Creek terminates at tide-water on the south; hence its completion will give a continuous sewer from north avenue to tide-water—a distance of about three miles.

Northern Extension.

This part of the work, which joins on to the old sewer on Gay street, near the Union Railroad bridge, is located as follows: Commencing at North avenue and Chester street, thence in Chester street to Townsend street, in Townsend street to Castle street, in Castle street to Lanvale street, in Lanvale street to Wolfe street, in Wolfe street to Gay street, in Gay street until it intersects the old stone sewer near the Union Railroad bridge.

This section is circular throughout its entire length, and has a clear diameter of eight feet. Its bottom is paved above the surface of the ordinary water-flow with regular-shaped blocks of Port Deposit granite. The balance of the arch is built of two rings of bricks, and the arch is backed throughout its entire length with a spandrel wall of rubble masonry. In the construction of this work, wherever the natural embankment was sufficiently firm or suitable for foundations, we shaped the bottoms to suit the bed of the sewer. This was only done, however, where the natural ground

line was higher than the springing line of the arch. In all cases, where the natural ground line was below the springing line of the arch, a substantial cradle wall of rubble masonry was built; and the following figures show the lengths of each kind of work, as well as the entire length of what is here termed the northern extension of Harford Run sewer:

Built in cradle wall 1,108 lin. feet.

Built in natural embankment . . . 1,900 “

Total length of sewer . . . 3,008 “

Ten man-holes are connected with the sewer. All have been built as near the grade lines of the streets as it was possible for us to determine at the time of building; and as the grading is done, it will only be necessary to top them off and set the castings in place, which are all on the ground.

Fourteen inlets have been made. Four of these have been completed, as follows: Two on Gay street, near Hoffman, and two on Washington street. The balance of this lot consist of iron castings twenty inches in diameter, with quarter bends attached, which pierce the sewer at different street crossings, and which can be lengthened by simply inserting twenty-inch pipes as time and public improvements demand. I would add, however, that I have already had to extend several of these connections, made necessary by the grading of Chester and Wolfe streets, the beds of each street running in places over the centre of the sewer. I desire also to add, as an argument in favor of the building of sewers in advance of public improvements, that the opening of both these streets were absolutely

dependent upon the building of the sewer, and we were scarcely out of the way before both streets were under construction, which means the building up at an early day of all that unimproved section between Broadway and Belair avenue, and Hoffman street and Boundary avenue. The grading and paving of Chester street made necessary the construction of two inlets at the corner of Boundary avenue and Chester street. Including these, which work was done apart from the contract, we have in all six completed inlets, and ten with pipe connections, to be finished as the grading, &c., is done. This work was completed on August 29, 1887, and the contractors were paid for same, per estimate sheet, \$38,995.80.

Southern Extension.

This portion of the Harford Run improvement, which constitutes the great bulk of the work, is well advanced toward completion, and will likely be finished by the 1st of August, 1888.

Work was commenced on the 29th day of November, 1885. Its location is as follows: Joining on to the diversion sewer at Monument and Patapsco streets, the sewer runs in the bed of Patapsco street to a point about one hundred feet north of Hudson street; thence it curves to the right with a radius of five hundred feet, until it meets a tangent line drawn at right angles with Boston street; thence on said line to the north building line of Boston street, where it terminates. When completed, its entire length will be about six thousand nine hundred feet. Commencing at Monument street, we build a circular sewer ten feet in diameter, and continue the same a distance of three thousand

six hundred feet, one thousand of which is being built in tunnel. This brings us to the south portal of the tunnel, into the marsh grounds of Patterson Park extension, where it was necessary to drive piles for foundations, where also the grade of the sewer was necessarily decreased, and the cross section changed in shape and enlarged. At this point we had to provide a plan for the Ogier's Run connection; also a plan for the joining of the ten-foot circular sewer with the flat-bottomed sewer of the main line. It was found practicable to effect these connections by the construction of a massive chamber, with an *arch* of sufficient span to cover the portal of the ten-foot sewer of the main line, the seven-foot sewer of Ogier's Run, and the larger section of the main sewer. The side walls of this chamber are built of large blocks of cut stone, laid on a platform of Georgia pine timber. The arch, one-half of which runs parallel to the main line of the sewer, the other half parallel with the line of the Ogier's Run sewer, consists of four rings of bricks, sprung from a skew-back of cut stone. The inverts of both circular sewers are built of cut stone, classed as dressed ashlar, and set in beds of concrete. The dimensions of chamber are as follows:

Length parallel with main line...	19 $\frac{15}{100}$	feet.
Length parallel with Ogier's Run		
line	19 $\frac{65}{100}$	"
Greatest width between walls, up-		
per end.....	24 $\frac{50}{100}$	"
Greatest width between walls,		
lower end.....	17	"
Height from floor to spring line..	6	"
Middle rise of arch.....	6	"

Piles.

From the chamber to the terminus of the sewer, a distance of three thousand three hundred feet, five rows of piles have been driven, using in all two thousand seven hundred and thirty seven piles, aggregating ninety-eight thousand five hundred and sixty-four linear feet, and averaging about thirty-six feet to the pile, exclusive of the cut-off. The longest pile driven was fifty feet in length, the shortest fifteen feet. In the entire work there were cut off of pile-heads five thousand two hundred and forty-five feet. This part of the work has been entirely finished.

Timber Platform.

This consists of 12-12 Georgia pine stringers, laid parallel to the sewer-bed and fastened with wrought iron nails, twenty-one inches in length, to each pile-head. These stringers are tied together with six-inch Georgia pine lumber, long enough in every case to cover the entire sewer-bed, which serves as the bottom of the constructed sewer. The total length of platform is three thousand three hundred and twenty-six linear feet, requiring in its construction eight hundred and sixty thousand two hundred and eighty feet of lumber, B. M. This portion of the work has been completed.

From the mouth of the tunnel to tide-water the sewer has three sizes, the cross-section of each increasing as it nears its terminus. The bottoms of all these sections are rectangular in shape. The side walls are constructed of cut stone, classed as rock ashlar, capped

with a large skew-back of cut stone, from which are sprung brick arches, varying from three to four rings, making the arches thirteen and eighteen inches in thickness.

The upper end, about twelve hundred feet in length, has a span of seventeen feet, with an area equal to one hundred and twenty-nine and $\frac{6}{10}$ square feet. The next section between Eastern avenue and Aliceanna street, a distance of seven hundred and thirty-one feet, has a span of twenty-four feet, and an area equal to one hundred and seventy-six and $\frac{5}{10}$ square feet. The lower section, from Aliceanna street to the north building line of Boston street, a distance of one thousand four hundred and sixty-three feet, has a span of twenty-four feet and an area equal to one hundred and eighty-seven and $\frac{1}{10}$ square feet. This part of the sewer, which includes the three sections just described, is built on the pile foundation, and was nearly all constructed in the bed of the stream, and was dependent for its support exclusively upon its own construction. The arches throughout are backed with heavy rubble masonry laid in cement, in some cases one stone weighing over one ton.

The south portal and head wall, which stand on and parallel with the north building line of Boston street, is constructed of cut stone and makes a very creditable appearance from Boston street bridge. These three lower sections, with the exception of a gap left in Patterson Park extension, about seventeen feet long, for the stream of Harris' Creek to enter, have been practically completed.

Man-Hole Castings.

Along the line of the sewer we have inserted man-holes at distances about three hundred feet apart, and thus far fourteen castings have been set. At all the street crossings, and the prospective street crossings, cast-iron pipes, with quarter bends, have been connected with the sewer with a view to connecting inlets when the streets are graded and paved. Four inlets have been finished on Eastern avenue, and others will be built in connection with the grading and paving of streets.

The following figures show the amount appropriated to build both extensions of Harford Run sewer, the amount expended, and an approximate estimate of what will be required to complete the present work, as well as a probable balance:

Amount of appropriation.	\$350,000 00
Expended during the year 1885. \$	1,668 58
Expended during the year 1886.	121,444 50
Expended during the year 1887.	137,674 40
Percentage due contractors, and payable at completion of work.	12,492 26
Expended to January 1, 1888..	\$273,279 74
Approximate estimate to com- plete sewer.	45,000 00
Approximate cost to finish streets, inlets, &c., at south- ern end.	10,000 00
	\$338,279 74
Probable balance	11,720 26
	\$350,000 00
	\$350,000 00

In my report of last year I outlined a new drainage system, and submitted plans for same for your consideration, made necessary by the changing of the grades of Lancaster, Hudson, Dillon, and Patapsco streets. After due consideration, the plans were adopted and are all being carried out, with the exception of the small parallel sewer, recommended to be built from the intersection of Luzerne and Hudson streets, running through the Abbott Iron Rolling Mill and Canton Company properties, and terminating at tide-water. Its route being through their property, we were dependent upon them for the right of way, which we at that time thought they would give, in view of the prospective benefits which would accrue to the surrounding property. The map, showing the plans in full, was exhibited to the representatives of the two companies; but, for some conditions demanded for the right of way, this part of the plan was abandoned, and an iron pipe twenty inches in diameter substituted, which is joined to the sewer on Hudson street, and continued in Hudson street to Luzerne street, where an inlet has been constructed, and which is now in use.

The fact that the crown of our sewer at Hudson street is somewhat higher than the surface of the ground where the inlet is located suggested the building of the parallel sewer, independent of the main sewer, as I feared, in tremendous rains, that this depressed point would be flooded with back water from the sewer; and after being practically denied the right of way, with your approval I had a pipe cast with a nozzle which turns inside the sewer wall, and is so adjusted that its nozzle or spigot end sets parallel

with the current of the stream, and is about fourteen inches above the bed of the sewer. It is hoped, as the idea is so intended, that the current of water in the main sewer, in floods, passing over and under this pipe, will tend to create a vacuum, and be an advantage in drawing off the water from the adjacent low ground rather than backing it up. If this proves to be a success, there are other places where the same principle might be applied in the city to great advantage.

In connection with this idea, I have had placed in the inlet the *simple swinging* door, which has been used in inlets since the construction of the Low street sewer, as traps to prevent the escape of sewer gas. This door, which was fully described in my report for the year ending 1885, swings to a frame shaped to fit the sewer. It is opened by the current of water from the outside, and would be closed by a corresponding pressure of water backed from a sewer. Hence my desire is to show that, in the use of these doors in connection with the nozzle pipe hereinbefore referred to, the remedy to prevent back water and damage by floods to depressed localities is duplicated. In almost every instance damaging floods are the result of sudden summer storms, and in such rains the water from one locality in connection with a sewer has entirely run off before the water from another distant locality reaches the same point in the sewer.

Such being the case, the trap-door, after having been raised to let the water off from its own locality, would be closed against any back water from the sewer, which, without the door or nozzle, would raise in the

depressed point to its level in the sewer. Under some circumstances, this principle might, to some extent, fail; but upon the condition, as herein stated, and which most always prevails, I believe that the application of the idea would often be successful. Under no circumstances, however, can it do harm. The swinging door costs from five and one-half to eight dollars, according to size.

The lateral sewer, as indicated on the plan for the drainage system herein alluded to, has been built from the main sewer on the proposed bed of Dillon street to Patapsco street. It is partly on piles and partly on a plank foundation. It is egg-shaped, narrow point downwards; so constructed that no deposits can lodge therein. Its height is three feet nine inches, width at spring line three feet. When Patapsco street is graded, four inlets, as per plan, will be connected therewith at this point.

Grading of Streets.

Since the completion of the lower end of the main sewer, we have been resorting to every device to get material to raise the streets to the required height to clear the sewer. A large quantity of elegant filling was obtained from cellar excavation without cost to the city. We also purchased, and are still using, large quantities of oyster shells to make the fills. In addition to this, with your consent, we employed a gang of men, with carts, and hauled the refuse from the Abbott Iron Rolling Mill works, which material we have used to top off the streets, which makes an elegant road for

temporary purposes, and which, with a little overhauling, will serve as a bed for the pavement in the spring.

Hudson street has been opened, the grading of which has nearly been finished, the fill being in one place as much as six feet. Most of the kerb has been set.

In my last report I recommended the building of a new bridge across Harris' Creek, on Boston street, in place of the old wooden structure, which is in very bad condition. The completed sewer will enable you to contract the span, from the present length of the old bridge of about one hundred feet to a span of twenty-six and one-half feet, which will agree with the Philadelphia, Wilmington and Baltimore Railroad Company's abutments for their bridge at the same place. In connection with the building of a new bridge, it will be necessary to build retaining walls along the south building line of Boston street, and erect a railing thereon.

I find that, to complete the bridge, build retaining walls, make the necessary fill in the bed of Boston street, &c., will cost about \$22,000.

EXTENSION OF OGIER'S RUN.

Ogier's Run, where provision was made for its entrance into the main sewer at the chamber hereinbefore described, is a stream which drains a large area lying northeast of Patterson Park extension. Until a sewer is built to accommodate this stream, the park extension cannot be improved.

I consider it necessary to extend the Ogier's Run sewer as far as the park extension boundary line. Its location would be as follows: Joining to the connection left in chamber hereinbefore described, it would run through the park extension at an angle of about thirty degrees with the line of the main sewer until it intersected the line of Lombard street; thence taking said line and running eastward, following where the bed of Lombard street would be, if extended, until it reached the eastern boundary of the park. If this cannot be effected, we will be compelled to build at least three hundred feet of this sewer to enable us to close the gap left in the main sewer in Patterson Park.

I submit the following cost of each: To continue the sewer, with *branch sewer* through the park extension, two thousand seven hundred and five feet, \$35,000; to continue the sewer three hundred feet, \$4,000.

In connection with the improvement necessary to entirely open the way for the building up, &c., of the northeastern district of our city, I would suggest the building of a sewer from the point on Broadway where the Union Railroad crosses to the sewer now located on Gay street. Broadway, at the point above mentioned, is very much depressed, and the building of the sewer I consider an imperative necessity in connection with the general improvement of that locality. It can be located either on the north or south side of the Union Railroad. A sewer, with a capacity equal to a four and one-half foot circle, would be sufficient. It would require large inlet capacity at Broadway, and other inlets could be placed at its intersection with street crossings.

I submit the following approximate cost, exclusive of the right of way: Total approximate cost, \$8,500.

Some three years since (during the former administration of our present Mayor) some of the property along Ann street between Preston and Eager streets was damaged by the overflowing of the Ann street sewer. In view of this fact, some diversions in the water courses flowing from the district east of Ann street were made, and several new inlets built in connection with the Harford Run sewer, which are all explained in my report to your predecessor for the year ending 1885, page 47, headed "Inlets into Harford Run Sewer." This Ann street sewer, so called from a title under which it was built, is a circular brick arch, with a diameter of seven and one-half feet, running from Eager street on Ann street to a point about one hundred feet south of Gay street, where it turns under private property. From this point in Ann street it is neither proportioned nor located properly, and so continues to Gay street, and up Gay street to the point where we cut and join the new sewer thereto. This sewer, as shown, was inadequate to carry off the floods of 1885; and its route, as above briefly described, now forms the only means of conveying the water from the newly built sewer of the northern extension to the large ten-foot circular sewer on Eager street at Wolfe street.

Now, in view of the depressions in Ann street, and the bad construction of a part of this old sewer, its unnecessary length, and lack of capacity, I would suggest, with a view to avoid the flooding of this district, which is more liable now since the completion of the

new sewer on the north than ever before, the building of a new sewer, with a diameter of eight feet, joining it to the ten-foot circular sewer at Wolfe and Eager streets; thence up Wolfe street, until it intersects the new sewer just completed at Wolfe and Gay streets. By this location the great body of water north of Hoffman street would be delivered into the large diversion tunnel at Wolfe street, without coming in contact with any depressed points, and would travel four hundred and seventy feet less in distance than it now travels over its present route. At the same time, the old Ann street sewer would be needed to drain the locality through which it passes, and would also connect, at Eager and Wolfe streets, with the diversion tunnel. With this plan completed, I feel sure that the northeastern district, herein alluded to, will be sufficiently protected from overflows for an indefinite period.

I submit the following approximate estimate of cost: \$38,700.

I desire, however, to suggest that, in connection with the building of this proposed sewer, it would be desirable to have the Union Railroad Company construct their bridge over Wolfe street, and remove their present abutments, which now stand in the line of the sewer.

In conclusion, please accept my thanks for the confidence you have manifested toward me during my management of the works herein reported upon.

Respectfully,

CHARLES A. HOOK,

Engineer in Charge.

FALLS ROAD.

The notoriously bad condition of this important and much-used highway, from Maryland avenue to the city limits, has caused general complaint from all who are compelled to travel over it. The City Council passed Ordinance 25, approved March 31, 1886, instructing the City Commissioner to have this road graded, kerbed, and paved. After a careful examination of the premises, it was found that this ordinance could not be executed without the erection of a retaining wall on the southwest side of the road from Maryland avenue to the Maryland Central Railway Station, a distance of six hundred and eighty feet, nearly parallel with the tracks of the Northern Central Railway Company, and on a line between said company and the property of the city in the Falls road.

The above Ordinance No. 25, from reasons above stated, became inoperative, and was repealed, and Ordinance No. 125 was passed by the City Council, and approved October 27, 1886, to take its place. By this latter ordinance the City Commissioner is instructed to have built a retaining wall, as above described. There was a failure to make an appropriation of money to carry into effect this ordinance; nor was there any money available from other sources at the command of Department to carry out this object; hence the whole matter was again held in abeyance until it became too late to do anything last year. Again, in the present year, attention was called to the fact of an appropriation being necessary to enable this Department to go on with the work; yet no appropriation was made for this purpose.

The condition of the road becoming worse and almost impassable, on the 19th of September, 1887, the City Council passed Resolution No. 127, appropriating \$1,500 for the temporary improvement of the road, said amount to be taken out of any unexpended balances in the City Commissioner's Department. As soon as it was ascertained that any such balances were available, they were applied to the repairs of the road, and up to the present time there has been expended for this purpose \$1,015.73 with beneficial results, though temporary in their character. In the meantime a consultation was held by your Commissioner with his Honor the Mayor and the City Solicitor as to whether or not this Department could go on with work without further legislation in the premises. The permanent improvement of the road had in every sense become a public necessity; the long suffering and great inconvenience to a very large and influential class in the business community of the city very justly demanded it. A written opinion on the subject from the City Solicitor clearly setting forth that, under existing circumstances, if this Department could find any one to contract for the work of building this retaining wall who would be willing to await the action of the Mayor and City Council in the coming year 1888 in the matter, then it would be competent for the City Commissioner to enter into such contract with the lowest responsible bidder. Based upon this authority, this Department advertised on the 8th of October last for proposals to do the work. Bids were received and opened in the regular way on the 18th day of October, and the contract was awarded on the 28th day of the same month to Messrs. Tracy & Nardin,

and the work was begun at that time, and is now progressing, it being stipulated that the work is to be completed by August 1, 1888.

I may here add that, in consequence of the apparent impossibility of establishing the exact metes and bounds of what is called the Falls road, located as described in this, the deed thereof to the city not setting forth the same, the city accepted the line binding on what the Northern Central Railway Company claimed, by deed, for their property. This made the line an irregular one; and, while it was of a rather unusual width at the intersection of Maryland avenue and the Falls road, it also contracted the width of said road eight feet at the terminus of the retaining wall. To obviate this difficulty, and to obtain as uniform width to the road as possible, an agreement was entered into between the Northern Central Railway Company and the city that an exchange of eight feet of ground be had, namely: For the city to begin the wall at a distance of eight feet inside of the original line at the intersection of Maryland avenue and the road, and to erect the wall the same distance, namely, eight feet, outside of the original line at the terminus, the line to run straight from the beginning. By this arrangement an average additional width of fifteen feet of street will hereby be obtained the entire length of the wall. The exchange of ground, as made, will be of material advantage to the extraordinarily heavy travel over this road, which was, under the original line, accepted narrower than it should have been at the point indicated, at which the eight feet was obtained from the

railroad company. The excavation for foundation of wall will be materially increased by this change of base for about the distance of three hundred feet. It was found, from the nature of the ground on which this wall was to be built, that much difficulty and heavy expense would ensue should it be found necessary to hoist and cart away the earth excavated from foundation; in consequence of which an arrangement was entered into with the Northern Central Railway Company, through the kindness of their general agent, George C. Wilkins, Esq., whereby gondola cars were supplied on the line of work to remove the excavated earth, which, from necessity, was thrown on their ground; the cars to be loaded at the expense of the city, the cost of transportation and unloading to be borne by the railroad company.

The estimated cost of this work, including masonry, excavation, and incidental expenses, will amount to about \$16,000, and must be provided for in the levy of 1888.

PROPOSED BRIDGE AT THE INTERSECTION OF WOLFE AND
PRESTON STREETS, UNDER UNION RAILROAD.

This is a subject which will require considerable thought, and, possibly, some legal investigation. The following letter from George C. Wilkins, Esq., general agent of the Union Railroad, covering date of December 30, 1887, and addressed to the City Commissioner, and my reply of January 4, 1888, will serve to show how the matter stands at present writing:

UNION RAILROAD COMPANY,
OFFICE OF THE GENERAL AGENT,

BALTIMORE, December 30, 1887.

A. E. SMYRK, Esq.,

City Commissioner, Baltimore:

DEAR SIR—Referring to our recent conversation on the subject of opening Wolfe and Preston streets under the Union Railroad, you are aware that the difficulty in the way is the lack of head-room; and this cannot be provided for without either lowering the grade of Wolfe and Preston streets or raising the grade of the Union Railroad; to the latter, we make no objection; but it is impossible to do this without interfering seriously with the grade of Biddle and Washington streets in the immediate vicinity.

It seems, therefore, impracticable to meet your wishes at Wolfe and Preston streets without taking up the whole question of the adjustment of the grade of the Union Railroad, and the streets crossing it, from Broadway to the eastern city limits. This subject is now receiving the serious consideration of the officers of this company, and we hope in a short time to be able to submit a plan which will be mutually satisfactory.

Yours respectfully,

GEORGE C. WILKINS,

General Agent.

BALTIMORE, January 4, 1888.

GEORGE C. WILKINS, ESQ.,

General Agent Union Railroad.

DEAR SIR—Replying to yours of the 30th of December past, referring to a recent conversation had upon the subject of opening Wolfe and Preston streets, I fully agree with you that sufficient head-room cannot be obtained at that point for this purpose without the elevation of the grade of your tracks. The lowering of the grades of the above streets, to make anything like a satisfactory adjustment of the difficulty, I believe, under existing circumstances, to be impracticable. Your remarks regarding the serious interference with the grades, as established on Biddle and Washington streets by the elevation of your tracks, are practical and to the point. While I regret the existence of the foregoing facts, and greatly desire to relieve those interested in the much-needed improvement contemplated at the intersection of the above-named streets, and as no practical solution of this affair seems to present itself at present, I shall await the receipt of the proposed plans promised for adjustment of the grade of your road from Broadway to the city limits. With the hope that it may enable us to surmount the difficulty,

Respectfully yours,

A. E. SMYRK,

City Commissioner.

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In addition to the above, I may add that I have caused to be made in this office a profile of grades at Wolfe and Preston streets, as well as some of the adjacent streets affected by the present grade of the Union Railroad. I find the average head-room to be obtained at the intersection of Wolfe and Preston streets, according to grades now established, about eleven and one-half ($11\frac{1}{2}$) feet. This, in my opinion, is totally insufficient, except as a temporary arrangement, while it is possible to obtain, say, about eighteen inches or two feet more by the alteration of the grades of these streets. The lowering of them would cause a basin immediately under the contemplated bridge, to drain which much additional expense would be necessary. While an arrangement of this kind could be effected, it must be borne in mind that the cost of the construction of a proper and sufficient bridge at this point would be the same as though it were built at a sufficient height to serve all purposes, for which an improvement of this character is designed to accommodate; hence I would recommend a most thorough investigation of the whole subject, which time at present will not allow of.

WILKENS' AVENUE.

Ordinance No. 48, approved April 20, 1887, and amended by Ordinance No. 82, approved May 18, 1887, provide for making parks in the centre of Wilkens' avenue between Gilmor and Bentalou streets, and for widening, grading, and paving the driveways on each side of the said parks. The sum of \$7,000 is set apart to defray the cost of the kerbing for said parks; one-

half of which, or \$3,500, to be provided for in the levy for 1887, and the balance of \$3,500 to be provided for in the levy for 1888. According to this ordinance, the owners of property binding on the proposed work are authorized and directed, at their own expenses, to set back the sidewalk kerb five feet from its original position, so as to leave a space for driveways twenty-five feet in width.

In pursuance of the above ordinance, the park kerbing was set in the four squares between Monroe and Bentalou streets, leaving three squares between Monroe and Gilmore streets yet to be parked, which work will be done next year. No paving has been done, as the property holders have not yet moved back the sidewalk kerb, as directed by the ordinance.

The kerbing for this work is furnished by Mr. William F. Weller, of Howard county, Md., at eighty-nine (89) cents per linear foot.

HAND-RAILING ON RIDGELY STREET.

By Resolution 53, approved March 31, 1887, a hand-railing was erected on the line of Ridgely street, south of the Baltimore and Ohio Railroad crossing, for the protection of persons using the road to Harman's bridge:

Appropriation.....	\$150 00
Expended.....	149 35
Balance.....	\$ 65

MONUMENT TO HON. JOHN LEE CHAPMAN, EX-MAYOR.

By Ordinance No. 105, approved October 10, 1887, the Mayor and City Commissioner were directed to have a monument constructed and erected in the lot where repose the remains of John Lee Chapman, one of the mayors of Baltimore; and to contract with the Greenmount Cemetery Company to keep the lot in good and proper order forever. Under this ordinance a contract has been made with Messrs. Bevan & Sons for the construction and erection of the monument at a cost of four hundred and seventy-five dollars, the plan presented by them having been approved. The contract will be made with the Cemetery Company in due time for keeping the lot in order.

SIDEWALKS AROUND JOHNSON SQUARE.

By Resolution No. 56, approved 31st March, 1887, I was directed to have the footways around Johnson Square paved, and for which the sum of \$2,500 was appropriated. The work was done at a cost of \$2,158.50, leaving a balance of \$341.50.

FOOTWAY ON BALTIMORE STREET IN FRONT OF PATTERSON PARK.

The sum of \$1,600 was appropriated by Resolution No. 41, approved 23d March, 1887, to grade and pave the foot pavement on the south side of Baltimore street from Patterson Park avenue to Luzerne street, in front of Patterson Park. A brick pavement was laid, as directed, at a cost of \$1,392.89, leaving a balance on hand of \$207.11.

SIDEWALK AT RIVERSIDE PARK.

A brick sidewalk was laid on Randall street, on the north side of Riverside Park, and the cost of the same was done without a special appropriation, it having been charged to the account for "Paving and repaving in front of city property."

In concluding this my second annual report, I have to offer my best thanks to their Honors the late and the present Mayors, and the members of the City Council without exception, for the spirit of courtesy and fairness exhibited towards me at all times. The employees of the Department, with few exceptions, have been attentive and faithful in the performance of their respective duties, and have aided me much in the discharge of mine.

Hoping my efforts to faithfully discharge the duties assigned me may meet your approval, I am, sirs,

Your most obedient servant,

A. E. SMYRK,
City Commissioner.

LIST OF TABLES ANNEXED TO THE CITY COMMISSIONER'S
REPORT FOR THE YEAR 1887.

Table A exhibits the amount of appropriations, the amounts expended, and the balances due on the several appropriations.

Table B shows the amount of money required for the year ending December 31, 1888.

Table C shows the streets, lanes, and alleys paved, with names of contractors, dates of acceptance of work, and the amount of paving done for the year 1887.

Table D exhibits the amount of superficial feet of repaving done to December 31, 1887, and the localities in which it was done.

Table E shows the names of superintendents of repair gangs, quantity of work done, and materials used by each, together with the cost of same.

Table F shows the revenue received in the Department for the year ending December 31, 1887.

TABLE A.

Showing the Amount of Appropriations and the Balances due on the several Appropriations for the year ending December 31, 1887.

ACCOUNTS.	APPROPRIATIONS.	AMOUNTS PAID.	AMOUNTS UNDRAWN.
Repairs of sewers and inlets.....\$ 9,000 00			
This sum from gas and electric lights, per Resolution 112, of 1887..... 4,100 00			
Paid Register..... 2,302 68			
Flag and stepping-stones.....	\$ 15,402 68	\$ 13,055 62	\$ 2,347 06
Repairs of paved streets.....\$ 75,000 00	8,000 00	7,709 92	290 08
Paid Register..... 1,200 58			
Repairs of bridges.....\$ 6,000 00			
This sum from gas and electric lights, per Resolution 112, of 1887..... 1,900 00	76,200 58	74,911 25	1,289 33
Paving and repaving in front of city property...	7,900 00	7,857 25	42 75
Salaries.....	1,000 00	997 01	2 99
Livery of horses.....	9,000 00	9,000 00	
Incidentals.....	500 00	500 00	
Paving and repaving "cross-streets".....	50 00	44 25	5 75
	8,000 00	7,876 07	123 93

Paving new streets.....	33,617 84	33,617 84	
Repairs of unpaved streets.....	2,000 00	1,595 76	404 24
Improvement of Jones' Falls.....\$145,973 09			
Paid Register.....	335 02		
Improvement of Jones' Falls, deficiency for 1886.			
Light-street bridge.....	146,308 11	145,973 09	335 02
Improvement of Harford Run.....\$137,674 40	153 38	153 38	
Paid Register.....	2,050 89	2,013 77	37 12
Iron gutter-plates.....			
Iron gutter-plates at Pratt and Monroe streets, per Resolution 40, of 1887.....	137,681 40	137,674 40	7 00
Iron gutter-plates at Howard and Barre streets, per Resolution 58, of 1887.....	3,000 00	3,000 00	
Extension of Low street sewer..... \$ 1,500 00	900 00	690 24	209 76
Paid Register.....	850 00	709 22	140 78
Pulaski street sewer.....			
Lanvale street sewer.....	1,542 51	1,499 18	43 33
Necessity alley sewer.....			
Sewer in North avenue, section of....\$ 5,000 00	13,452 27	13,449 34	2 93
	15 63	15 63	
Amounts carried forward.....	\$467,625 29	\$462,343 22	\$5,282 07

TABLE A—Continued.

ACCOUNTS.	APPROPRIA- TIONS.	AMOUNTS PAID.	AMOUNTS UNDRAWN.
Amounts brought forward.....	\$467,625 29	\$462,343 22	\$5,282 07
Paid Register.....	8 67		
Atlas of the City of Baltimore.....	5,008 67	4,984 21	24 46
New turn-table for draw-bridge.	25 00	25 00	
To shell Warner and Dock streets, per Resolution 14, of 1887.....	974 85	974 85	
To shell Ridgely street, per Resolution 26, of 1887.	500 00	500 00	
To shell Bayard street, per Resolution 17, of 1887.	500 00	500 00	
To shell Washington road, per Resolu- tion 16, of 1887.....	500 00	500 00	
Paid Register.....	\$800 00		
	3 50		
To shell Eastern avenue, per Resolution 49, of 1887.	803 50	796 65	6 85
To shell East Monument and Fayette streets, per Resolution 53, of 1887.....	700 00	700 00	
To shell Point lane, per Resolution 104, of 1887..	600 00	600 00	
To shell West Franklin street, per Resolution 33, of 1887.....	250 00	249 70	30
	100 00	99 41	59

To shell the Liberty road, per Resolution 23, of 1887.....	50 00	40 51	9 49
To pay A. Bouldin, City Surveyor, per resolution 37, of 1887.....	4,218 34	4,218 34	
To change kerb, north end of Eutaw Place, per Resolution 20, of 1887.....	600 00	511 75	88 25
Paving loan of 1920.....	6,256 33	6,256 33	
To repave the Centre Market, per Resolution 69, of 1887.....	\$6,250 00		
Paid Register.....	60 00		
To Park Wilkens avenue, per Ordinance 48, of 1887.....	6,310 00	6,250 00	60 00
To park Fulton avenue, per Ordinance 47, of 1887.....	3,500 00	3,499 39	61
To repave Fulton avenue from Baltimore street to Edmondson avenue, per Ordinance 64, 1887.....	3,500 00	3,498 66	1 34
Paid Register.....	\$24,877 15		
Johnson Square, to pave the footways around, per Resolution 56, of 1887.....	25,859 60	24,877 15	982 45
Patterson Park, to pave the footway on Baltimore street, per Resolution 41, of 1887.....	2,500 00	2,500 00	
	1,600 00	1,600 00	
Amounts carried forward.....	\$531,981 58	\$525,525 17	\$6,456 41

TABLE A—Continued.

ACCOUNTS.	APPROPRIA- TIONS.	AMOUNTS PAID.	AMOUNTS UNDRAWN.
Amounts brought forward.....	\$531,981 58	\$525,525 17	\$6,456 41
Ridgely street, to erect hand-railing, per Resolu- tion 53, of 1887.....	150 00	149 35	65
Mosher street and Rutter's Run sewers, to com- plete, per Ordinance 13, of 1887.....	6,500 00	6,452 77	47 23
Culvert at Calvert and Eager streets, per Resolu- tion 59, of 1887.....	1,200 00	1,199 23	77
To macadamize the Fall's road, per Resolution 127, of 1887.....	1,015 73	1,015 73	
Repairing gutters, Charles and Eager streets, per Resolution 60, of 1887.....	1,800 00	1,790 99	9 01
Calvert street bridge, maintenance of floor.....	536 00	536 00	
St. Paul street bridge, maintenance of floor.	946 25	946 25	
Inlets to Howard street sewer, per Resolution 42, of 1887.....	350 00	338 48	11 52
Inlets to Howard street sewer, per Resolution 74, of 1887.....	350 00	345 93	4 07

New engine for Light-street bridge, per Resolution 141, of 1887.....	287 50	287 50	
Traps to Eager street sewer, per Resolution 23, of 1887.....	112 00	78 31	33 69
	\$ 545,229 06	\$ 538,665 71	\$ 6,563 35

TABLE B.

Showing the Amounts required for the City Commissioner's Department
for the year ending December 31, 1888.

ON WHAT ACCOUNT.	AMOUNT.
Repairs of sewers and inlets.....	\$10,000 00
Repairs of bridges.....	7,000 00
Repairs of paved streets.....	85,000 00
Repairs of unpaved streets.....	1,500 00
Flag and stepping stones.....	10,000 00
Paving and repaving in front of city prop- erty.....	1,000 00
Paving and repaving "cross streets".....	10,000 000
Salaries.....	9,000 00
Livery.....	500 00
Incidentals.....	100 00
Light street bridge.....	3,000 00
Maintenance of floor of Calvert street bridge.....	536 05
Maintenance of floor of St. Paul street bridge.....	946 27
To complete Mosher street and Rutter's Run sewers.....	5,500 00
Improvement of Fulton avenue.....	5,500 00
Retaining wall, Falls' road.....	16,000 000
Reconstruction of Central avenue sewer, near Orleans street.....	5,700 00
Paving streets in the Bolton property....	6,211 07
Surveying instruments for the Department.	600 00
Monument to John Lee Chapman, formerly mayor.....	600 00
Parking Wilkens avenue.....	3,500 00
	\$182,193 39

TABLE C.

Statements of Streets, Lanes and Alleys paved for the year ending 31st December, 1887.

NAMES OF STREETS, &c.	CONTRACTORS' NAMES.	No. OF Sq. Ft.	PRICE PER Sq. Foot.	DATE OF CONTRACT.	DATE OF ACCEPTANCE.
Biddle street, between Greenmount avenue and North street.....	Patrick Raddington..	38,424	5 cents.	May 12, 1886.	Mar. 26, 1887.
McHenry street, between Payson and Benton streets.....	W. R. Weaver & Co..	45,325	4 $\frac{3}{4}$	Nov. 8, "	May 13, "
Bethel street, between Fairmount avenue and Fayette street.....	Patrick Raddington..	6,990	5 $\frac{1}{2}$	Jan. 13, 1887.	July 1, "
Edmondson avenue, from Monroe street to western city limits.....	James P. McGovern..	51,760	5 "	Nov. 18, 1885.	Sept. 2, "
North avenue, from Charles to North street	W. R. Weaver & Co..	59,132	4 $\frac{1}{10}$	Dec. 20, 1886.	Aug. 11, "
North avenue, from North street to Greenmount avenue.....	W. R. Weaver & Co..	31,413	4 $\frac{1}{10}$	Dec. 20, "	Aug. 11, "
Lanvale street, from Fulton avenue to city limits.....	Morgan & Bresnan...	63,733	5 "	Aug. 30, 1884.	Nov. 10, "
Oliver street, from Aisquith to Ensor street	Patrick Keely.....	12,527	5 "	Aug. 11, 1887.	Oct. 14, "
Chester street, from Oliver street to North avenue.....	Patrick Raddington..	66,000	5 "	June 20, "	Dec. 5, "
Hoffman street, from Eden to Bond streets.	W. R. Weaver & Co..	31,666	5 "	July 5, "	Dec. 5, "
Lanvale street, from Aisquith to Ensor street.....	Patrick Keely.....	11,070	5 "	Aug. 11, "	Nov. 22, "
Orleans street, from Patterson Park avenue to Luzerne street.....	W. R. Weaver & Co..	44,729	5 "	March 10, "	Dec. 31, "
Streets in Bolton properly.....	James P. McGovern..	46,252	5 "	Sept. 1, "	" "
Total square feet.....		509,021			
Fulton avenue, from Baltimore street to Edmondson avenue, asphalt blocks.....	W. S. Wilkinson.....	9,269.7			
Centre Market, granolithic.....	I. S. Filbert.....	2,397.6			

TABLE D.

Showing the Quantity of Repairs done and Materials used on the Streets and Alleys during the year 1887.

STREETS.	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Aisquith street.....	45,323	765	106 $\frac{1}{2}$	12
Aliceanna street.....	60,669	1,246	90	25
Albemarle street.....	733	6	1	.....
Ann street.....	12,081	296	52	.....
Booth street.....	17,960	247	36	.....
Bowley's wharf.....	21,335	207	33	.....
Biddle street.....	12,801	234	18	.....
Baltimore street.....	1,821	2	1	30
Bank street.....	16,620	192	21	.....
Broadway.....	48,073	559	79	130
Boundary avenue.....	1,040	49	4	112
Block street.....	5,051	52	14	.....
Bethel street.....	5,822	78	6	182
Boston street.....	48,510	806	46 $\frac{1}{4}$	.....
Bolton street.....	640	24	4	.....
Beuren street.....	2,407	24	3	.....
Balderson street.....	6,170	84	13 $\frac{1}{2}$	.....
Battery avenue.....	640	4	1	.....
Buchanan's wharf.....	5,570	59	17	.....
Charles street.....	9,302	83	10	30
Choptank street.....	4,282	75	7	.....
Columbia avenue.....	2,011	17	2 $\frac{1}{2}$	.....
Central avenue.....	19,733	230	35	.....
Cathedral street.....	9,010	159	24	.....
Centre street.....	6,279	105	8 $\frac{1}{2}$	.....
Amts. carried forward.	363,883	5,503	623 $\frac{1}{4}$	521

TABLE D—Continued.

STREETS.	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Amts. brought forward	363,883	5,503	623 $\frac{1}{4}$	521
Calvert street.....	29,091	439	35	150
Camden street.....	3,207	22	4 $\frac{3}{4}$	.....
Courtland street.....	60	.....	.....	.....
Canton avenue.....	34,022	350	68 $\frac{1}{2}$	66
Conway street.....	3,430	31	4	.....
Chesnut street.....	3,566	43	8 $\frac{1}{2}$	.....
Carey street.....	1,985	22	3	.....
Caroline street.....	40,666	735	89 $\frac{1}{2}$	30
Clay street.....	6,675	69	6 $\frac{1}{2}$	.....
Chase street.....	62,360	902	102	.....
Chew street.....	2,831	29	2 $\frac{1}{4}$	125
Commerce street.....	917	21	2 $\frac{1}{2}$	.....
Cross street.....	32,440	355	30	75
Concord street.....	36,737	374	45 $\frac{1}{2}$	.....
Chester street.....	1,575	36	3	80
Chapel street.....	5,095	67	9	123
Cole street.....	13,474	154	8	.....
Carrollton avenue.....	6,400	52	14	.....
Calhoun street.....	2,290	35	2	.....
Clement street.....	1,805	19	1	133
Dallas street.....	13,532	274	20 $\frac{1}{2}$	281
Durham street.....	7,755	92	6	.....
Dock street.....	4,187	46	6	.....
Davis street.....	3,938	55	7 $\frac{1}{2}$	.....
Dolphin street.....	150	2	.....	.....
Douglas street.....	6,315	81	19	.....
Amts. carried forward.	688,386	9,708	1,121 $\frac{1}{4}$	1,584

TABLE D—Continued.

STREETS.	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Amts. brought forward	688,386	9,708	1,121 $\frac{1}{4}$	1,584
Druid Hill avenue.....	5,236	110	9	.....
Ensor street.....	14,449	240	19	.....
East street.....	565	7	$\frac{1}{2}$	.....
Eager street.....	10,966	112	25 $\frac{1}{2}$	439
Elliott street.....	1,230	12	2	.....
Eutaw street.....	20,159	242	47 $\frac{1}{2}$	.....
Exeter street.....	2,970	23	5	.....
Eden street.....	43,672	769	59	.....
East Falls avenue.....	4,424	44	2	.....
Eastern avenue.....	52,578	824	99	.....
Exchange place.....	4,163	31	6 $\frac{1}{2}$	.....
Edmondson avenue.....	14,862	177	33	.....
Fremont street.....	118,120	1,695	159	242
Fairmount avenue.....	9,030	109	30	110
Frederick street.....	225	4	1	.....
Franklin street.....	65,492	920	99 $\frac{3}{4}$	331
Frederick avenue.....	400	2	1	.....
Fayette street.....	5,707	53	3 $\frac{1}{2}$	.....
Fort avenue.....	150	2	.....	.....
Fulton avenue.....	8,901	68	10	.....
Gough street.....	15,267	272	48 $\frac{1}{2}$	15
Greenmount avenue.....	26,221	1,078	51 $\frac{1}{2}$	125
Gilmor street.....	280	3	.....	.....
Granby street.....	130	4	.....	20
Greenwillow street.....	10,016	250	24	.....
Grant street.....	8,031	66	9	.....
Amts. carried forward.	1,131,630	16,825	1,866 $\frac{1}{2}$	2,866

TABLE D—Continued.

STREETS.	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Amts. brought forward	1,131,630	16,825	1,866 $\frac{1}{2}$	2,866
Garden street.....	1,516	12	2	.....
George street.....	2,007	13	2 $\frac{1}{4}$	.....
Hull street.....	1,263	17	2	.....
High street.....	7,763	94	14 $\frac{1}{2}$	85
Hoffman street.....	13,555	183	28	.....
Hamilton street.....	4,910	58	5	90
Hollingsworth street...	1,630	21	2	.....
Holliday street.....	18,972	252	56	.....
Hanover street.....	1,371	12	1	.....
Henrietta street.....	54,821	846	68	.....
Harford avenue.....	17,475	310	53 $\frac{3}{4}$	.....
Howard street.....	17,594	197	26	.....
Hughes street.....	17,567	255	24	.....
Harlem avenue.....	9,755	120	13	203
Hamburg street.....	11,234	114	12	.....
Johnson street.....	2,527	19	5	.....
Josephine street.....	230	3	.....	.....
Jefferson street.....	28,060	247	32	.....
Jasper street.....	1,850	18	3	30
John street.....	110	.....	.....	.....
King street.....	10,262	103	14	.....
Lexington street.....	2,687	24	4 $\frac{1}{4}$	.....
Light street.....	29,760	328	40 $\frac{3}{4}$	80
Little Pleasant street...	1,600	8	2	.....
Lee street.....	14,014	274	33 $\frac{3}{4}$	.....
Lombard street.....	24,352	340	55 $\frac{1}{2}$	.....
Amts. carried forward.	1,428,515	20,696	2,366 $\frac{1}{4}$	3,354

TABLE D—Continued.

STREETS.	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Amts. brought forward	1,428,515	20,696	2,366 $\frac{1}{4}$	3,354
Leadenhall street.	4,340	42	7	.....
Little Pine street.	6,744	86	20	.....
Linden avenue.	221	2	1	.....
Liberty street.	200	2	1	.....
Lancaster street.	127	2	$\frac{1}{2}$	.....
Low street.	57	1	.....	.....
Mosher street.	12,826	284	20	.....
Mullikin street.	5,149	88	11 $\frac{1}{2}$	.....
McElderry street.	1,737	21	2	20
Maryland avenue.	12,946	146	23 $\frac{3}{4}$	30
Miller street.	1,154	13	2 $\frac{1}{2}$	23
Myrtle avenue.	328	2	1	.....
Monument street.	30,020	458	68 $\frac{3}{4}$	93
Montgomery street.	22,839	386	81	221
Mulberry street.	9,640	209	31	.....
McHenry street.	10,683	197	15	.....
McElderry's wharf.	12,881	188	9	.....
Mt. Royal avenue.	391	4	$\frac{1}{4}$	.....
Mill street.	753	9	$\frac{1}{2}$	48
McMechen street.	4,857	65	4	.....
Marion street.	3,709	34	3	.....
Mott street.	7,225	114	11	.....
McKim street.	6,286	91	17 $\frac{1}{2}$	.....
Mount street.	100	2	.....	.....
Marshall avenue.	1,163	13	1	.....
Madison street.	2,899	53	3	.....
Amts. carried forward.	1,587,790	23,208	2,701 $\frac{1}{2}$	3,789

TABLE D—Continued.

STREETS.	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Amts. brought forward	1,587,790	23,208	2,701 $\frac{1}{2}$	3,789
Marsh Market space....	3,118	33	.....	.....
North street.....	16,365	198	47	.....
Orleans street.....	24,246	419	41 $\frac{1}{4}$	.....
O'Donnell street.....	342	4	2	.....
Paca street.....	135	1	.....	.....
Pleasant street.....	616	6	2	.....
Pratt street.....	48,802	604	61 $\frac{1}{4}$	240
Pierce street.....	8,343	76	12	166
Pine street.....	60	.....	.....	76
President street.....	6,098	99	5	.....
Park avenue.....	10,742	135	13 $\frac{1}{2}$	.....
Pennsylvania avenue...	120	2	.....	.....
Patterson avenue.....	120	1	.....	.....
Patapsco street.....	1,384	11	2	.....
Poppleton street.....	22,609	252	25 $\frac{1}{2}$	.....
Penn street.....	2,000	17	2	.....
Preston street.....	6,915	94	7 $\frac{1}{2}$	.....
Patterson Park avenue..	7,418	210	58 $\frac{1}{2}$	.....
Pearl street.....	257	4	$\frac{1}{4}$	.....
Perry street.....	189	4	.....	.....
Rutter street.....	600	13	1	.....
Randall street.....	2,823	22	2	468
Ridgely street.....	5,578	93	16	.....
Register street.....	4,070	65	10 $\frac{1}{2}$	.....
Russell street.....	9,933	100	19	.....
Raborg street.....	27,865	396	62	.....
Amts. carried forward.	1,798,538	26,162	3,111 $\frac{3}{4}$	4,739

TABLE D—Continued.

STREETS.	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Amts. brought forward	1,798,538	26,162	3,111 $\frac{3}{4}$	4,739
Read street.....	13,454	318	25	351
St. Paul street.....	68,696	695	96 $\frac{3}{4}$	.....
Saratoga street.....	26,798	287	58 $\frac{1}{2}$	106
Sharp street.....	13,119	111	18	.....
Stockholm street.....	1,470	13	2	.....
Second street.....	5,000	65	15	.....
Stirling street.....	2,772	52	1	.....
Spring street.....	8,854	144	19	.....
Sarah Ann street.....	3,767	32	4	.....
Thames street.....	3,719	34	19	.....
Union dock.....	10,272	119	53 $\frac{1}{2}$	21
Vine street.....	1,330	16	4	.....
Warner street.....	25,644	352	69 $\frac{1}{2}$	.....
Wayne street.....	2,124	18	4 $\frac{3}{4}$	.....
West street.....	42,750	377	107 $\frac{1}{2}$	.....
William street.....	6,915	66	15	.....
Wilson street.....	3,848	41	16	.....
Wolfe street.....	35,708	642	109	160
Water street.....	6,612	56	18 $\frac{1}{2}$	.....
Waesche street.....	640	6	$\frac{1}{2}$	.....
Washington avenue.....	10,944	98	22	.....
West Falls avenue.....	309	3	1	.....
York street.....	15,808	160	34	.....
	2,109,091	29,970	3,825 $\frac{1}{4}$	5,377

TABLD D—Continued.

Showing the Quantity of Repairs done and Materials used on Lanes and Alleys during the year 1887.

LANES AND ALLEYS.	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Armistead lane.....	2,908	24	4	.....
Abel's alley.....	206	1	.....	.....
Addison alley.....	4,236	48	9	.....
Bell alley.....	93	1	.....	.....
Beaufort alley.....	300	4	1	.....
Bank lane.....	9,802	103	20	.....
Bruce alley.....	6,695	96	17	150
China alley.....	315	5	.....	.....
Cider alley.....	360	6	.....	.....
Camel alley.....	1,344	28	4	.....
Chestnut alley.....	450	4	.....	68
Clover alley.....	5,410	98	14	.....
Duncan alley.....	5,000	77	5	.....
Exchange alley.....	200	3	.....	.....
French lane.....	2,556	40	1 $\frac{1}{2}$	.....
Garrett alley....	7,545	105	13 $\frac{1}{2}$	.....
Hammond alley.....	2,423	45	1	.....
Hodges' alley.....	7,347	90	20	.....
Hall's alley.....	1,929	24	2	.....
Harmony lane.....	3,800	57	1	.....
Jordan alley.....	3,724	68	4	25
Kimmel alley.....	1,478	21	1	.....
Larew's alley.....	3,071	43	7 $\frac{1}{2}$	.....
Lovegrove alley....	1,882	27	1 $\frac{1}{4}$	.....
Morton alley.....	4,530	64	3	.....
Amts. carried forward.	77,604	1,082	129 $\frac{3}{4}$	243

TABLE D—Continued.

LANES AND ALLEYS.	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Amts. brought forward	77,604	1,082	129 $\frac{3}{4}$	243
Mason alley.....	450	9	.....	.....
Morris alley.....	15,036	277	39	.....
McClellan's alley.....	5,631	70	5	.....
N alley.....	3,125	56	15 $\frac{1}{2}$	.....
Pimlico alley.....	200	.....	.....	.....
Peabody alley.....	5,540	46	10	.....
Parrish alley.....	3,770	35	12	.....
Sharp street alley.....	810	11	3	.....
Shields' alley.....	6,372	62	18	.....
Stockton alley.....	3,103	25	12	6
Welcome alley.....	2,345	36	13	323
	123,986	1,709	257 $\frac{1}{4}$	572

TABLE D—Concluded.

Grand Total Quantities of Repairs in Streets and Alleys.

	Area in sq. feet.	Loads of sand.	Perches of stone.	Linear feet kerb reset.
Streets	2,109,091	29,970	3,825 $\frac{1}{4}$	5,377
Alleys.....	123,986	1,709	257 $\frac{1}{4}$	572
	2,233,077	31,679	4,082 $\frac{1}{2}$	5,949

TABLE F.

Showing Quantity and Cost of Work done by Superintendents of Street Repairs.

SUPERINTENDENTS.	Square feet paved.	Linear feet kerb reset.	Perches of stone	Loads of sand.	Cost.
John Fitzpatrick.....	181,054	752	225	2,215	\$5,334 99
P. M. Holbrook.....	221,675	802	313 $\frac{1}{2}$	3,068	6,531 67
John L. Brown.....	193,692	734	223 $\frac{1}{4}$	2,110	5,707 29
R. W. Keily.....	172,896	825	383 $\frac{1}{4}$	2,608	5,094 63
Moses Egan.....	185,265	.....	277 $\frac{3}{4}$	2,596	5,459 03
Walter Sauerwein.....	175,003	.....	274 $\frac{1}{2}$	2,925	5,156 72
W. H. Lennon.....	253,725	575	516 $\frac{1}{4}$	4,028	7,475 76
George E. Weaver.....	166,704	354	391	2,824	4,912 22
H. E. Schneider.....	171,585	669	426 $\frac{1}{2}$	3,111	5,056 01
E. J. Stapleton.....	189,319	270	446 $\frac{1}{2}$	2,266	5,578 46
Joseph Schoenig.....	169,388	368	178	1,681	4,991 29
Thomas Kavanaugh.....	152,771	600	427	2,247	4,500 75
	2,233,077	5,949	4,082 $\frac{1}{2}$	31,679	\$65,798 82

TABLE F.

Showing the Revenue received in the City Commissioner's Department
for the year ending 31st December, 1887.

ON WHAT ACCOUNT.	AMOUNT.
Vaults and areas	\$627 00
Public printing	306 00
Repairs of sewers	2,302 68
Repairs of paved streets	1,200 58
Improvement of Jones' Falls	335 02
Improvement of Harford Run	7 00
Shelling Washington road	3 50
Low street sewer	42 51
North avenue sewer	8 67
Repaving Centre Market	60 00
Repaving Fulton avenue, per Ordinance 64, of 1887	982 45
	\$5,875 41

REPORT

— OF THE —

JONES' FALLS COMMISSION.

REPORT.

BALTIMORE, January 1, 1888.

*To the Honorable the Mayor
and City Council of Baltimore:*

The work on the improvement of Jones' Falls was prosecuted under the supervision of Mr. Charles H. Latrobe, Civil Engineer, until August 31, on which day he resigned. His report to that date will be found annexed. After that date Mr. W. H. Marriott was in charge as acting engineer. It gives us pleasure to testify to the eminent fitness of both these gentlemen for the position, as is also evidenced by the superior character of the work done.

We are, respectfully,

FERDINAND C. LATROBE, *Mayor,*

A. E. SMYRK, *City Commissioner,*

Jones' Falls Commission.

ENGINEER'S REPORT.

BALTIMORE, August 31, 1887.

Hon. James Hodges, Mayor, A. E. Smyrk, City Commissioner, Jones' Falls Commission:

GENTLEMEN :

As the Charles street bridge is now completed, and the other work on the Falls suspended for want of available funds, I herein tender my resignation, to take effect at this date, which is in accord with my intention expressed a year ago to his Honor the Mayor, that upon completion of the Charles street bridge, which was peculiarly the work of his administration, and which, having designed, I felt it my duty to see completed, I would resign my position. In doing this, I feel it is but right to express my sense of the confidence reposed in me by the present administration, which I have endeavored to merit by strict attention to my duties in the execution of the work entrusted to my care, and which I think will be found to be substantial and enduring.

I would further state in regard to the Charles street bridge, that it still lacks the lamps which are to go on

the end granite pedestals. These should be of bronze, both for beauty and to prevent oxidation, which stains the granite pedestals, also to match the bronze memorial plates. I herewith submit a drawing for them, and have included their cost in the items required to close up the old work now underway.

In consequence of the order of the Commission, sent to me by Captain Smyrk on July 6, 1887, I have closed up the work on the walls as soon as it could be done with safety to the heavy banks sustained by them, in order that the balance of the available fund could be devoted to the continuance of the dredging. Since the work has been drawing to a close, all running accounts have been wound up as rapidly as possible, and the books posted to date, so that at this writing no claims are outstanding except the drawback to the Baltimore Dredging Company, which I thought, Captain Smyrk assenting, they could wait for until the Council met. It is right to say here, that but for the heavy floods in July, the dredging would have been completed to Baltimore street easily at this time; but the quantities of silt brought down have made it necessary to dredge and re-dredge the same ground to enable the scows to pass out loaded. I have placed in Captain Smyrk's hands a complete tracing of the present condition of the Falls at every bridge from Madison street to Canton avenue. In my opinion the lower Falls should be dredged every year as regularly as the harbor, and by the Harbor Board as a part of their work, to keep it clear and lower the flood line. It carries large quantities of silt which, with the increasing sewage, fill up the bed rapidly.

In regard to the incomplete walls between Biddle and Preston streets, I would respectfully urge that when the Council meets in September an ordinance be passed to make available stock enough to close them up, so that the banks may be saved and building operations may go on, which cannot begin until the said walls are complete. I would also urge that the walls be extended a short distance on both sides of the Falls, above Preston street bridge, to the verge of the railroad property on the one side, and to the mouth of Jenkins' Run on the other. The banks will be built up solidly as soon as the walls are built, and great improvement result.

The amount of money required to finish the work now under way, and to extend it to what may be termed a conclusion for the present, is as follows:

To complete all work now under way, including the lamps for Charles street bridge.....	\$35,000 00
To pay drawback, and complete dredging to Fayette street bridge.....	12,000 00
To extend wall to a conclusion above Preston street bridge—that is, to the verge of the railroad property.....	50,000 00
To extend the dredging, if thought advisable, to Gay street bridge.....	8,000 00
Total.....	\$105,000 00
 Available resources, consisting of unissued stock	 \$243,000 00

As whatever is done at the September session of the Council will have to be done quickly, I enclose a copy of the ordinance of May 1, 1884, leaving the amount asked for blank. This is in proper form.

Although all the accounts of the Jones' Falls Commission go through the City Commissioner's office, yet, for the information of the Commission, and my own protection, I have had kept a regular set of double entry books since August, 1880. This has enabled me to get at the cost of every branch of the work, which has extended through several administrations. These books are now fully posted; and in connection with them there is a property book, with an accurate inventory of all equipment on hand. This equipment is all at the unfinished walls, including steam derricks, &c., ready to be put into use again at a day's notice—all being in good order and under shelter.

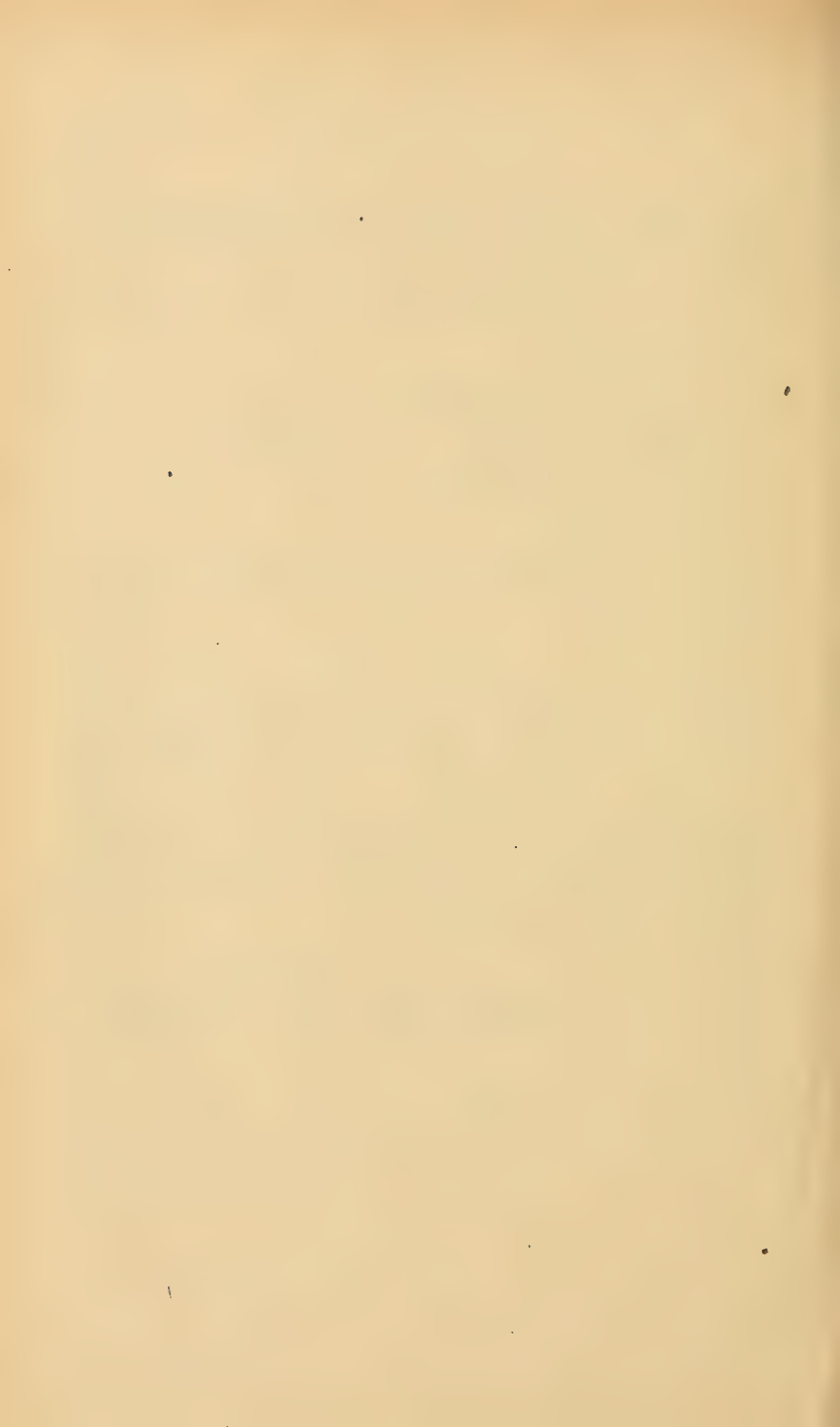
Before closing my report, I must speak in the highest terms of my two assistants, W. H. Marriott and Alfred S. Barroll; and I trust the Commission will continue them in place when the work is resumed, if such be the case, in September. Mr. Marriott's long training on this work makes him fully competent to carry on to completion the walls already laid out; whilst Mr. Barroll, as draughtsman, book-keeper, and accountant, is all that is needed. I could also highly recommend them should skilled assistance be needed in any branch of the City Commissioner's Department.

In addition to the property on the work, there is in the office department as follows:

- (1). One transit instrument.
- (2). One level.
- (3). One chest of drawers.
- (4). One testing machine for cements.
- (5). One testing table.
- (6). Two drawing boards.
- (7). One desk stool.
- (8). A lot of stationery.
- (9). A lot of small instruments and odds and ends a good deal used.

As an office is absolutely needed to carry on the work, I would suggest that the present office, which was leased until April, 1888, be retained and its rent divided, if the arrangement can be made with the Commission of Public Parks, as they must have an office for their General Superintendent and Engineer, this would make the office cost each party one hundred and fifty dollars per annum.

C. H. LATROBE,
Engineer Jones' Falls Commission.



Acting Engineer's Report.

BALTIMORE, December 31, 1887.

Hon. F. C. Latrobe, Mayor, A. E. Smyrk, City Commissioner, Jones' Falls Commission:

GENTLEMEN:

I herewith submit a report in detail of all the work done along the line of Jones' Falls during the year 1887, and present it as supplementary to the general statement, a copy of which I herewith transmit, accompanying the resignation of your able engineer, Mr. Charles H. Latrobe, which took effect August 31 last, since which time, by the order of the Commission, the undersigned has been in active charge of the work.

At the date of last annual report, work was in course of prosecution on the east side of the Falls, above and adjoining Fayette street bridge, by Gang No. 1, H. W. Traylor, foreman. This work was brought to completion on January 25, 1887, and the gang was transferred to Charles street bridge, and work was at once begun to prepare for the erection of the new iron bridge at that important thoroughfare. The work at

this point was of a very delicate and complicated character, involving the removal of the old structure, the remodeling of the masonry of the abutments, shifting of important trussed gas pipes, and, finally, the erection of the new, heavy, and substantial iron superstructure—all to be done without any interruption to the stream of travel that flows across at that street. The work was necessarily slow, and it was not till May 28 that the western half of the new bridge was open to travel, and not until August 13 that the entire bridge was thrown open to the public.

The solid and durable character of the new work speaks for itself, and reflects the greatest credit upon the designer and engineer, Mr. Charles H. Latrobe.

The handsome bronze pillars and lamps, intended to be placed upon the granite pedestals at either entrance, are now nearly ready, and will be put in position in a few weeks.

Acting under the instructions of the City Commissioner, the iron work of the old bridge structure at Charles street was stored upon the lot on the southwest corner of Charles and Oliver streets, rented for the purpose from Dr. William A. Moale, and all responsibility therefor, as far as this Commission is concerned, ceased on September 5, 1887, as per notice mailed to Dr. Moale August 30, 1887, the City Commissioner's Department assuming the cost of same.

RETAINING WALLS.

Gangs No. 3, James Donohue, foreman; No. 10, P. C. O'Donnell, foreman; No. 12, M. W. Wallace,

foreman, with the exception of several interruptions, because of unfavorable weather, have been steadily employed in erecting the retaining walls on either side of the Falls, between Biddle and Preston streets, until the funds at the command of the Commission compelled a suspension of work on August 6, 1887; and it was not until October 17, 1887, after the Council had authorized the issuance of an additional \$55,000 Improvement Bonds to complete these walls, that work was resumed, and is being now prosecuted.

The characteristics of the work done are as follows: The walls are faced with Cockeysville limestone ashlar, in courses, ranging from thirty feet rise to twenty-four feet, and are backed with large Jones' Falls stone laid in the best Cumberland cement. The foundations are everywhere set upon solid rock bottom prepared by blasting. The labor has been all by the day and at city rates. The amount of money disbursed as wages to the men during 1887 has been \$31,278.70, and since June 15, 1881, \$214,759.60.

SUNKEN PARKS OR TERRACES.

On March 3 Gang No. 11 began work upon the finishing up of Park No. 2, west of St. Paul street bridge, and on June 29 the granite work of the steps was completed; the gutters and drains were then laid, and the permanent hedges set out along the fronts.

Work was also commenced on April 4 on Park No. 3, between Calvert and North streets; and, with the exception of the granite work, which is now under

contract, was entirely completed by August 6. An addition to the bridge-keeper's house on Calvert street has been made, in order to provide a place to store the necessary tools and equipments.

Statement of Work done upon the Support Walls along the line of Jones' Falls during the year 1887.

No. of Gang.	Linear feet Wall Built.	Cubic yds. Masonry laid.	No. Piles driven.	Feet Lumber B. M.	Total Cost.	Cost per cubic yard.
	FT. IN.					
No. 1..	28 6	57.57	32	783	\$ 1,962 91	\$34 09
No. 3..	141 8	1,321.47	.....	.....	16,994 68	12 86
No. 10..	136 5	1,289.91	.....	.....	16,083 97	12 47
No. 12..	171 4	2,030.57	.....	.....	21,455 07	10 66
Totals.	477 11	4,699.52	32	783	\$ 56,496 63	\$12 02

Summary of Amount and Cost of Work from Average date, June 15, 1881.

No. of Gang.	Linear feet Wall Built.	Cubic yds. Masonry laid.	No. Piles driven.	Feet Lumber B. M.	Total Cost.	Cost per cubic yard.
	FT. IN.					
No. 1..	933 4	2,380.08	908	28,398	\$ 47,397 16	\$19 91
No. 2..	1,720 2	4,195.93	1,368	41,994	86,805 38	20 68
No. 3..	1,168 9	12,236.19	.....	.....	142,480 07	11 64
No. 4..	635 5	7,878.84	.....	.....	79,148 73	10 04
No. 5..	279 2	2,496.74	.....	.....	26,608 00	10 65
No. 6..	301 3	2,536.50	.....	.....	30,775 56	12 13
No. 7..	190 2	1,830.31	.....	.....	20,104 55	10 98
No. 10..	334 6	2,847.72	.....	.....	32,442 46	11 36
No. 12..	171 4	2,268.45	.....	.....	23,890 51	10 53
Totals.	5,734 1	38,670 76	2,276	70,392	\$489,652 42	\$12 66

It will thus be seen that the average cost per cubic yard for the year is \$12.02, and that the average cost per cubic yard since 1881 has been \$12.66.

REPAIRS TO DRAWBRIDGE.

In July last the water-pipe feeding the hydraulic engine of the City Dock drawbridge was fractured by one of the Harbor Board dredges, and it became necessary to repair the same. The pipe was safely taken up, repaired, and relaid, being placed at least two (2) feet deeper in the bottom than formerly, and is now believed to be secure from harm.

DREDGING JONES' FALLS.

The Council appropriation of \$20,000 for the purpose of continuing the dredging of Jones' Falls having been exhausted in November, 1886, the Commission, realizing the great importance of the work, authorized its continuance, and provided for the cost of same out of the Improvement Funds at their disposal. Under these instructions, up to September 1, 1887, at which time the Improvement Funds became exhausted, there had been expended \$16,129.76, and there was due to the contractors, as retained percentage, \$4,196.65. The Council, at its September session, authorized the issuance of \$55,000 more of Improvement Bonds, of which \$20,000 was to be expended upon the continuance of the dredging of the Falls. On December 28, 1887, it was deemed advisable to suspend all operations for the winter because of the danger from ice, &c.

Of the \$20,000 appropriated, there remains \$4,269.15 unexpended balance available for future work; the cost of the work since September 1, together with the payment of the retained per cent. of \$4,196.65, having been only \$15,730.85.

At the time of the suspension of the work, the dredge had reached a point above Fayette street bridge, opposite the rear of St. Vincent's Church, and had afforded relief to the street drain which opens from the bend in Harrison street, as well as to many cellars contiguous thereto.

From Lombard street up there was a solid, compact mass, twelve to fourteen feet in depth, of gravel, silt, and filth which has been accumulating for years, and which, at low water in summer, was exposed to the festering rays of the sun, and was a constant menace to the health of the city. There is now up to the point of suspension, above Fayette street bridge, an average depth of eight feet of water at mean tide. It had been the hope of the Engineer to be able to extend the dredging this season to a point much nearer Gay street bridge, so that the spring freshets might the more readily bring down the material above that point and thus deepen the whole channel of the upper Falls, and afford relief to the various sewers entering therein.

While the average depth of water is given above as eight feet, there was dredged, and in some places redredged, to depths varying from twelve to eighteen feet, but which have been refilled by material brought down from the upper Falls.

It is very desirable that a good depth of water should be obtained along the Falls as far as Gay street bridge, and therefore your Engineer would recommend that, as soon as the season permits, the work of dredging the Falls be commenced and prosecuted until a depth of at least six feet be obtained at Gay street, above which point it will not be deemed necessary to go; and, by

thus lowering the bed of the stream, the depth of the water-way will be increased several feet. Above Gay street the action of the current will soon scour the Falls to its natural bed. Having once obtained a good depth of water in the Falls, in order to maintain it, it is imperative that the stream should be dredged annually as far as Baltimore street bridge. By thus removing the deposit of materials that is continually being brought down to tide-water, in a regular and systematic manner, the channel of the upper Falls will be kept clear, the mouths of the sewers kept open, and your Engineer is convinced that the inhabitants of the "flooded district" will be subject to the minimum risk of flood.

This work would be best done under the charge of the Harbor Board, and be made a part of their regular duties, as suggested by Mr. Charles H. Latrobe in the communication accompanying his resignation of August 31 last.

The following statement of the amount of material removed from the Falls, and the cost of same, since the dredging began in 1885, is herein submitted:

Total cubic yards removed to December, 1886.....	73,544.60
Total cubic yards removed from December 1, 1886, to September 1, 1887.....	47,392.97
Total cubic yards removed from September 1, 1887, to December 31, 1887.....	28,196.00
Grand total cubic yards.....	149,133.57
At a total cost of.....	\$57,588 31

A complete tracing, showing the section of the Falls at the various bridges, locating such changes as have taken place because of the dredging in the bed of the stream, is filed with this report.

The following analyzed statement of expenditures on Jones' Falls Improvement for the year 1887 is submitted:

For the building of the support walls.....	\$ 56,496 63
For completion of park No. 1, between St. Paul and Calvert.....	92 38
For completion of Park No. 2, between St. Paul and Lovegrove alley.....	4,392 83
For completion of Park No. 3, between Calvert and North streets.....	5,980 16
For erection of new Charles street bridge, including masonry and iron work.....	44,901 88
For dredging Jones' Falls, amount paid out.	31,860 61
For advertising for stock bids.....	74 00
For relaying water pipe at drawbridge.....	450 38
For amount paid, price for land taken by east abutment Biddle street.....	750 00
For office expenses, including rent.....	518 33
For engineering pay rolls for 1887.....	4,033 28
Cost of iron fenders at Fayette street bridge.	158 52
For cost of new equipment 1887.....	146 83

Total net expenditures for 1887.....\$149,855 83

Statement of Expenditures balanced by Vouchers.

Total vouchers issued 1887.	\$148,134 69
Estimated value of equipment at the beginning of year 1887	\$ 9,943 40
Value of purchases during the year 1887....	146 83
Total value of equipment. \$	10,090 23
Present value of equipment..	7,926 45
Net loss by wear and tear. \$	2,163 78
	\$ 2,163 78
Total gross expenditures.....	\$150,298 47
Less amount of cash receipts from various sources.....	442 64
Net expenditures.....	\$149,855 83

When the grading and leveling of sunken Park No. 3, between North and Calvert streets, was being done, care was taken to have a temporary timber drain laid under the bed of Hoffman street, in order to protect the low lying area south of the street from overflow. This area should be filled up as soon as possible, and the grade of Hunter alley changed to conform to the grade of Hoffman street.

Now that these parks, or terraces, are about completed, it is very essential that they should be turned over to the care of proper parties, and I would here

repeat the recommendation of Mr. Charles H. Latrobe, that they be placed by ordinance under the control of the Public Park Commission.

A cursory examination of the condition of St. Paul street bridge determined your Engineer to make a fuller investigation both of this bridge and Calvert street. Below will be found the result of same, with such suggestions as are deemed important:

ST. PAUL STREET BRIDGE.

This bridge was found to be in good general condition; but the necessity is pressing of making some provision for the preservation of the chord members of the large span over the railroad tracks from the action of the gases of coal combustion, and to repair the lower pipe of the hand-railing. These gases, combined with the hot steam, tend to corrode and disintegrate the iron members of the work, and would in time injure them seriously. On February 5 last, after correspondence with the officials of the Northern Central Railway, large signs were hung upon both St. Paul and Calvert street bridges reading, "Locomotives must not stand under this bridge," and the company issued a general order to their engine drivers to obey this injunction. It is, however, so often transgressed, that I would suggest that the Council pass an ordinance inflicting a penalty for every offence.

CALVERT STREET BRIDGE.

The same conditions apply to this bridge as in the case of St. Paul street bridge, only to a less extent.

These bridges will require for 1888 to pay maintenance contracts for asphalt floors, viz.:

For Calvert street.....	\$536 05
For St. Paul street.....	946 27

These amounts are obligatory on the city.

FUTURE SCOPE OF THE IMPROVEMENT.

The work laid out at present will be completed when the support walls are finished on both sides of the Falls, between Biddle and Preston streets. The next work in order should be the walls north of Preston street, on both banks, as far as the Northern Central Railway property, and the stretch of wall on the south bank of the Falls, between Charles street and Maryland avenue. To build this last-named wall, which is greatly needed, the Council must be asked to extend the limit of the improvement to Maryland avenue, the present limit being Charles street.

The statement of available resources for the improvement of Jones' Falls stock unissued, \$188,000.

Value of plant and equipments and their distribution is as follows, December 31, 1887:

With Gang No. 3, at Preston street.	\$3,896 20
With Gang No. 10, at Preston street.	1,835 40
With Gang No. 12, at Preston street.	2,194 85
Total.....	\$7,926 45

As the work in sight is rapidly drawing to completion, it will soon become necessary to make some provision for moving our machinery, &c., to the new points for the continuance of this improvement, or else to find some place to store the same safely. If it is decided to continue the work, the following amounts will be needed:

To build wall between Charles street and Maryland avenue...	\$60,000 00
To extend wall north of Preston street, on both sides of Falls to railroad lines	64,000 00
To continue the dredging of Falls, as per recommendation:.....	30,000 00
	\$154,000 00

Respectfully submitted,

WILLIAM H. MARRIOTT,

Acting Engineer, Jones' Falls Commission.

ANNUAL REPORT

— OF THE —

JUDGES OF THE APPEAL TAX COURT

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31, 1887.



REPORT.

APPEAL TAX COURT,

BALTIMORE, January 1, 1888.

*To the Honorable the Mayor and
City Council of Baltimore:*

GENTLEMEN :

We beg leave herewith to submit the result of the labors of this Department for the year ending on the 31st day of December, 1887.

Tabular Statement A shows the taxable basis charged to the City Collector for the years 1883 to 1887, both inclusive, with the assessments added to each, and the collections and abatements made on each.

Table B exhibits, by wards, the number of building permits issued during the year.

Table C, the Assessor's Report, shows the number of new buildings and additional improvements assessed by the Court's Assessor, the wards in which they are severally located, and the detailed and aggregate valuation of the same.

Following these tables will be found the reports respectively of the Assessors for Real Estate and the Bailiffs.

TABLE A.

Statement of property for each year that stands charged to the City Collector, December 31, 1887.

1883.	<i>Real.</i>	<i>Personal.</i>
Amount of assessment unpaid January 1, 1887.....	\$32,477	\$175,380
Amount of refunds to January 1, 1888.....	200	.....
	\$32,677	\$175,380
Amount of abatements made during 1887..... \$	525	\$37,202
Amount of collection during 1887.....	31,951	116,052
Amount remaining uncollected, closed by limitation	201	22,126
	\$32,677	\$175,380
1884.		
Amount of assessments unpaid January 1, 1888.....	\$57,722	\$361,658
Amount of refunds to January 1, 1888.....	1,420	.....
Amount of additional assessments.....	181,755	325,850
	\$240,897	\$687,508
Amount of abatements during 1887.....	\$2,025	\$323,660
Amount of collections during 1887.....	208,322	303,562
Amount remaining uncollected.....	30,550	60,286
	\$240,897	\$687,508

TABLE A—Continued.

1885.	<i>Real.</i>	<i>Personal.</i>
Amount of assessment unpaid		
January 1, 1887.....	\$2,929,624	\$2,212,931
Amount of refunds to January		
1, 1888.....	4,013	.....
Amount of assessments as		
real, assessed as personal..	75,600	.....
	\$3,009,237	\$2,212,931
Amount of abatements during		
1887.....	\$ 19,447	\$900,039
Amount of collections during		
1887.....	2,933,820	888,714
Amount having been assessed		
as real.....	.....	75,600
Amount remaining uncol-		
lected.....	55,970	348,578
	\$3,009,237	\$2,212,931
1886.		
Amount of assessments un-		
paid January 1, 1887.....	\$57,171,397	\$11,150,807
Amount of refunds to January		
1, 1888.....	138,413	.....
Amount of new assessments		
in 1887.....	5,420	10,620
	\$57,315,230	\$11,161,427

TABLE A—Concluded.

1886.	<i>Real.</i>	<i>Personal.</i>
Amount of abatements during		
1887	\$ 331,607	\$1,597,076
Amount of collections during		
1887	51,738,542	6,357,201
Amount of plant exempted		
in 1886 .....	.....	1,380,742
Amount of plant Consolidated		
Gas Company and Equit-		
able Gas Company	602,780	.....
Amount remaining uncol-		
lected	4,642,301	1,826,408
	\$57,315,230	\$11,161,427
1887.		
Amount of assessment re-		
maining as part of assess-		
ment of 1886	\$197,485,429	\$35,428,657
Amount of new assessments,		
less abatements on appeals.	3,814,919	5,916,794
Amount of new assessments,		
incorporated companies...	.....	25,024,775
Amount of new assessments		
during 1887	39,267	130,060
	\$201,339,615	\$66,500,286
Amount of abatements dur-		
ing 1887	\$ 564,001	\$ 1,715,948
Amount of collections during		
1887	142,551,039	53,182,787
Amount remaining uncol-		
lected	58,224,575	11,601,551
	\$201,339,615	\$66,500,286

RECAPITULATION.

Amount for different years charged to the City Collector, January 1, 1888.

1884—Real.....	\$ 30,550	
Personal.....	60,286	
		\$ 90,836
1885—Real.....	\$ 55,970	
Personal.....	348,578	
		404,548
1886—Real.....	\$ 4,642,301	
Personal.....	1,826,408	
		6,468,709
1887—Real.....	\$58,224,575	
Personal.....	11,601,551	
		69,826,126
		<u>\$76,790,219</u>
Less amount of plant 1887..	\$ 1,482,791	
Consolidated Gas Co. and		
Equitable Gas Co.....	602,780	
		\$2,085,571
		<u>\$74,704,648</u>

TABLE B.

The number of permits issued from January 1, 1887, to December 31, 1887, for new buildings and improvements were three thousand five hundred and ninety-eight, and apportioned among the several wards as follows:

Wards.	New Improvements.	Additional Improvements.	Total.
1.....	348.....	73.....	421
2.....	16.....	31.....	47
3.....	28.....	18.....	46
4.....	10.....	11.....	21
5.....	17.....	18.....	35
6.....	14.....	17.....	31
7.....	471.....	55.....	526
8.....	321.....	24.....	345
9.....	23.....	20.....	43
10.....	20.....	15.....	35
11.....	29.....	28.....	57
12.....	113.....	17.....	130
13.....	7.....	9.....	16
14.....	22.....	20.....	42
15.....	16.....	22.....	38
16.....	29.....	40.....	69
17.....	304.....	39.....	343
18.....	349.....	52.....	401
19.....	598.....	46.....	644
20.....	273.....	35.....	308
	3,208	590	3,598

TABLE C.

BALTIMORE, January 1, 1888.

*To the Honorable the**Judges of the Appeal Tax Court:*

I most respectfully submit the result of my labors for the year ending December 31, 1887, of the number of new and additional improvements, the several wards in which they are located, and assessed value of same:

Wards.	New Improvements.	Additional Improvements.	Value.
1.....	210.....	34.....	\$ 188,200
2.....	14.....	28.....	29,850
3.....	20.....	9.....	19,400
4.....	7.....	8.....	18,900
5.....	5.....	11.....	11,600
6.....	5.....	5.....	7,800
7.....	324.....	17.....	378,050
8.....	235.....	10.....	322,800
9.....	8.....	9.....	131,850
10.....	14.....	12.....	242,900
11.....	10.....	4.....	185,400
12.....	130.....	6.....	409,750
13.....	7.....	7.....	13,800
14.....	9.....	11.....	72,650
15.....	11.....	11.....	38,000
16.....	19.....	21.....	56,000
17.....	229.....	19.....	188,050
18.....	271.....	15.....	254,450
19.....	475.....	20.....	436,650
20.....	192.....	12.....	238,650
	2,195	269	\$3,244,750

Very respectfully,

THOMAS K. McCORMICK,

Assessor.

BALTIMORE, January 3, 1888.

*To the Honorable Judges
of the Appeal Tax Court:*

GENTLEMEN:

The undersigned Assessors have the honor to submit for your consideration their report for the year ending December 31, 1887.

For abatements allowed on property, made on the petitions of owners claiming to be over-assessed, see tabular statement annexed:

Wards.	No. of Appeals.	No. Granted.	No. Dismissed.	Amount Abated.
1.....	20.....	9.....	11.....	\$ 2,150
2.....	11.....	6.....	5.....	2,550
3.....	6.....	4.....	2.....	1,500
4.....	11.....	5.....	6.....	4,700
5.....	9.....	7.....	2.....	1,300
6.....	37.....	28.....	9.....	13,750
7.....	25.....	11.....	14.....	3,600
8.....	42.....	17.....	25.....	7,400
9.....	54.....	26.....	28.....	38,000
10.....	12.....	4.....	8.....	6,150
11.....	35.....	23.....	12.....	17,700
12.....	66.....	45.....	21.....	42,900
13.....	13.....	10.....	3.....	8,850
14.....	34.....	22.....	12.....	9,900
15.....	26.....	13.....	13.....	19,425
16.....	13.....	11.....	2.....	27,950
17.....	12.....	4.....	8.....	950
18.....	33.....	16.....	17.....	4,950
19.....	149.....	62.....	87.....	21,990
20.....	35.....	18.....	17.....	6,675
643		341	302	\$242,390

Respectfully submitted,

GEORGE W. MASSAMORE,
F. G. MAXWELL,
Assessors.

FRANCIS X. JENKINS, *Clerk.*

TAX DEPARTMENT,
CITY COLLECTOR'S OFFICE—CITY HALL,

BALTIMORE, January 6, 1888.

*To the Honorable Judges of the
Appeal Tax Court of Baltimore City:*

GENTLEMEN:

The undersigned reports the Bailiffs' Department as having made assessments of personal property to March 1, 1887, of the following amount: Five million nine hundred and eight thousand four hundred and thirteen dollars.

Respectfully submitted,

JOHN H. BELL, *Bailiff*.

REFUNDS.

From January 1, 1887, to January 1, 1888, there have been one hundred (100) orders for refunding of taxes, given generally to parties who have paid in error, either as double payments or on wrong property, or having paid on old improvements torn down, as well as on the new improvement.

TRANSFERS.

From January 1, 1887, to January 1, 1888, there have been seven thousand one hundred and forty-nine (7,149) transfers of property against 7,348 for 1886.

PLANT.

The amount of application and exemption from city taxes for plant for 1887 aggregate a total of \$1,482,791 to individuals, and exemption to Consolidated Gas Company and Equitable Gas Company, \$602,780. Total, \$2,085,571.

It will be seen by the foregoing that the Court has contented itself with making simply a statistical report of the workings of its department. The Tax Commission, created by Act of the Legislature of 1886, having concluded its labors, and about to make its report to the present Legislature, the Court, therefore, deems it unnecessary to make any suggestions or offer any recommendations, being fully satisfied that the Tax Commission, composed, as it is, of gentlemen of the highest ability and public spirit, will offer, in the bill which it proposes to submit, with its report, for the consideration of the Legislature, such practical measures and reforms as will insure an equitable and just system of taxation applicable to the entire community.

Yet we cannot close this report without again calling attention to the *absolute* necessity of a *general re-assessment* of the entire property within the city limits. This has been a growing necessity for a long time. The assessment under which the city is now working was, as all know, made twelve years ago, and now, when the great change in the characteristics of vast amount of property, the changing of large tracts into small holdings, and the great depreciation of property

in some sections of the city and corresponding increase of values in other parts, are considered, it will be readily seen under what great disadvantage the city is working and how unequal taxation must be.

Respectfully submitted,

JAMES E. CARR,
WM. H. B. FUSSELBAUGH,
E. J. CHAISTY, JR.,

Judges of Appeal Tax Court.

H. P. MOWINCKEL, *Chief Clerk.*

MICHAEL H. DOYLE, *Assistant Clerk.*

ANNUAL REPORT

OF THE

General Superintendent of Lamps

AND

INSPECTOR AND SEALER OF GAS METERS,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1887.

REPORT.

OFFICE OF THE GENERAL SUPERINTENDENT OF LAMPS
AND INSPECTOR AND SEALER OF GAS METERS.

BALTIMORE, January 3, 1888.

To the Honorable the Mayor and

City Council of Baltimore :

GENTLEMEN :

In presenting the ninth annual report of this Department, I have the pleasure of stating that everything has worked satisfactorily at an unusual low cost to the city, as will be seen by the annexed tables. Part of the gas supplied to the city off the line of competition by the gas companies, cost one (1) dollar per thousand feet, while that supplied where more than one company had mains cost fifty (50) cents per thousand feet. Since the first of November, however, there has been an arrangement made between the gas companies, and the price raised from that date to \$1.50 per thousand.

I suppose an arrangement can be made below the price to private or small consumers, as the cost of supplying the city is much less per thousand feet.

During the year, by consent of the Mayor, the lamps have been lighted every and all night, which seems to be very gratifying to our citizens, and if a satisfactory arrangement can be made with the gas companies as to price; I would recommend every night lighting be continued, as most all large cities are adopting this plan: the additional expense is about twenty-five (25) per cent. over partial lighting or utilizing the moon. This subject has so often been discussed that it is unnecessary to say more at this time.

In consequence of the large number of gas lamps erected in small streets and alleys, in place of gasoline, much to the gratification of the occupants of the houses and those using these thoroughfares, the number of gasoline lamps have materially diminished during the year, but we must continue to use gasoline lamps to some extent until gas mains are laid, particularly in the ungraded and unpaved streets, lanes and alleys.

There has been erected since last report three hundred and sixty (360) new lamps, three (3) re-lit, and ninety-nine (99) discontinued, leaving the present number fifty two hundred and seventy-seven (5,277).

The contract for electric lights with the Brush Electric Company expired May 31st, 1887, since which time an arrangement was made by Mayor Hodges to supply the city at fifty (50) cents per lamp per night, until the City Council took action on the subject. An ordinance was passed by the late Council directing a contract to be made, but was not approved by the Mayor. The price continues at fifty (50) cents per lamp.

Since my last report there has been erected fifty-five (55) new lamps, the present number being five hundred and thirty-one (531). A number of those erected during the year have been placed in the middle of the streets by what is termed a mast arm. This arrangement has been recommended by me in previous reports, and produces the best results.

I would recommend that they be used wherever necessary, in erecting new lamps, also that those now in use be changed as far as better results can be obtained, or where there are obstructions to diffusing the light, as now placed on the tops of the poles. I am aware that the first cost of erecting lamps with these arms is greater, and that the necessary daily attention occupies more time, consequently is more expensive, but the advantages much more than pay the additional expense, (as stated in previous reports). Some of the eastern cities, I believe, are adopting them in all their contracts. They have only to be examined to be appreciated.

The contract for supplies for the gasoline lamps will expire on the 30th of June. In consequence of burning every night of the month, the contractor was allowed twenty-five (25) cents additional or \$1.50 per lamp per month, instead of \$1.25 for partial lighting. I think this a fair increase for the increased number of hours burning, as there is no additional expense for repairs, or anything but the increased amount of gasoline and putting it into the lamps. There are eight hundred and forty one (841) in use, being two hundred and one (201) less in number than as per last annual report. As stated

on previous occasions, these lamps are the best known substitute for gas, and if properly attended to, and kept in good condition, answer until gas mains are laid, but there are serious objections made by our citizens to these lamps where gas can be obtained.

The question is often asked if a less number of lamp-lighters cannot do the work of lighting, putting out, and cleaning, since electric lights have been used, but it must be remembered that houses are being built very rapidly on the outskirts of the city. The number of gas lamps have decreased but a few, consequently the men have to walk much further, and take more time to light and put out than formerly; so much so, that we have constant complaint of not lighting the last part of the beats early enough. We think a less number could not do the work satisfactorily.

There has been put up during the year over two thousand (2,000) signs on the street corners, which pretty well supplies the city, and with a small number each year to replace those broken and supply new streets when houses are built, to secure them to, will require little attention in the future for some time.

I must again bear testimony to the efficiency of the superintendents, and also the lamplighters. There has been fewer complaints of neglect of duty than in any former year since having charge of the department.

Respectfully submitted,

F. W. KING,

General Superintendent of Lamps, &c.

LIST OF TABLES.

Annexed to the Report of the General Superintendent of Lamps and Inspector and Sealer of Gas Meters, for the year ending December 31, 1887.

Table A exhibits the number and size of gas meters inspected and sealed; also rejected, being incorrect or otherwise out of order.

Table B shows the amount received by the Department and paid to the City Register on the warrant of the Comptroller from January 1 to December 31, 1887.

Table C exhibits the amount of appropriation and amount expended, with balance unexpended, of the gas and electric light account.

Table D exhibits the amount of appropriation and amount expended, with balance unexpended of the lamp-pillars and lamp account.

Table E shows the amount required for the year ending December 31, 1888.

TABLE A.

Exhibits the number and size of Meters inspected, also rejected, being incorrect or otherwise out of order.

		SIZE AND NUMBER OF METERS INSPECTED AND SEALED.									
Size of Meters.....	Number of Meters...	2	3	5	10	20	30	45	60	80	100
		79	3,099	10,561	595	197	52	44	21	1	23
											150
											3
		SIZE AND NUMBER OF METERS REJECTED, BEING INCORRECT OR OTHERWISE OUT OF ORDER.									
Size of Meters.....	Number of Meters.....	2	3	5	10	20	30	45	60	80	100
		10	51	94	7	4	2	30	2	30	2

In addition to the above there were nineteen (19) street lamps, market and engine house meters taken out and tested, fifteen (15) of which were incorrect or out of order.

TABLE B.

Shows the amount received by the Department and paid to the City Register on the warrant of the Comptroller from January 1 to December 31, 1887.

Inspecting gas meters	\$3,773 25
Repairs of lamps.....	131 80
	\$3,905 05

TABLE C.

Exhibits the amount of appropriation and amount expended, with balance unexpended of the gas and electric light account.

	DR.	CR.
Gas and electric light ac-		
count.....	\$208,921 07	\$220,000 00
Balance.....	11,078 93	
	\$220,000 00	

TABLE C—Continued.

Exhibits the itemized expenditures of the gas and electric light account.

Electric lights at 70 cents per night.....	\$61,196 80
Electric lights at 50 cents per night.....	45,891 00
Gas for street lamps, 30,434,000 feet, @ 50 cents per M.....	15,217 00
Gas for street lamps, 50,220,800 feet, @ \$1.00 per M.....	50,220 80
Gas for street lamps, 9,234,700 feet, @ \$1.50 per M.....	13,852 05
Gas for Washington Monument, 142,700 feet, @ 50 cents per M.....	71 35
Gas for markets, 2,472,000 feet, @ 50 cents per M.....	1,236 00
Gas for markets, 151,200 feet, @ \$1.00 per M.....	151 20
Gas for markets, 292,500 feet, @ \$1.50 per M.....	438 75
Gas for squares, 1,708,900 feet, @ 50 cents per M.....	854 45
Gas for squares, 75,600 feet, @ \$1.00 per M.....	75 60
Gas for squares, 136,600 feet, @ \$1.50 per M.....	204 90
	\$189,409 90

TABLE C—Concluded.

Amount brought forward.....	\$189,409 90
Gas for St. Paul street bridge, 254,000 feet, @ \$1.00 per M.....	254 00
Gas for St. Paul street bridge, 28,000 feet, @ \$1.50 per M.....	42 00
New stops, repairs to burners, stops, &c...	1,505 07
Regulator burners, gas tips, repairs to meter prover, &c.....	75 80
Erecting new gas lamps, 360 at \$7.50 each.	2,700 00
Repairs to services and straightening posts, &c.....	934 00
Transferred to Manual Training School by Ordinance 104.....	3,000 00
Transferred to City Commissioner's Depart- ment by Ordinance 112.....	6,000 00
Transferred to Health Department by Reso- lution 131.....	4,000 00
Transferred to lamp pillar and lamp account by Resolution 132.....	1,000 00
	\$208,920 77

TABLE D.

Exhibits the amount of appropriation and amount expended, with balance unexpended of the lamp pillars and lamp account.

	DR.	CR.
Lamp pillars and lamp account.	\$25,982 38	\$26,000 00
Balance.....	17 62	
	\$26,000 00	
Keeping General Superinten- dent's horse and wagon.....	300 00	300 00

TABLE D—Concluded.

Exhibits the itemized expenditures of the lamp pillars and lamp account.

Gasoline supplies, including repairs, &c....	\$17,917 15
356 iron gas lamp posts, less old posts.....	2,287 00
72 new gasoline lamps.....	190 80
444 new gas lamps or lanterns.....	750 60
Globes for lamps.....	152 75
Repairs to gas lamps or lanterns, including glass, &c.....	1,777 65
Putting up lanterns, globes, gasoline posts, &c.....	416 90
2,032 glass slip street signs.....	873 76
Iron frames for street signs.....	900 68
Putting up street signs, &c.....	327 00
Seals for meters, and stamps.....	82 00
Repairs to gas fixtures, pipes, and regulators City Hall.....	127 85
Repairs to gas fixtures City College.....	10 00
Repairs to gas fixtures engine and truck houses.....	37 95
Repairs to gas fixtures, markets.....	45 27
“ “ “ squares.....	17 60
“ “ “ Record office.....	7 82
Ladders, alcohol and lamp-wick.....	27 60
Advertising, directory, postage stamps, &c.	32 00
	\$25,982 38

TABLE E.

Shows the amount required for the year ending December 31, 1888.

Lamp pillars and lamps, including gasoline, lamp supplies and repairs, gas and gaso- line posts, lamps or lanterns, repairs of gas lanterns, street signs, globes and inci- dentals.....	\$21,968 00
Gas and electric lights, including gas for street lamps, markets, halls, bridges, squares, &c.....	\$245,768 62
Keep of General Superintendent's horse and wagon.....	\$300 00

TWENTY-EIGHTH ANNUAL REPORT

— OF THE —

PARK COMMISSION

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31, 1887.

THE PARK COMMISSION.

JAMES HODGES, MAYOR,

Ex-Officio Chairman.

JOHN H. B. LATROBE,

GEORGE S. BROWN,

ANDREW REID,

GEORGE E. WAGGNER,

Commissioners.

REPORT.

To the Mayor and City Council of Baltimore :

In their last annual report the Commission referred to the litigation, then pending, in regard to the amount of the park tax proper to be paid by the several passenger railway companies. The Commission regret to have to say that it is still undecided.

In the same report reference was made to the appointment of a General Superintendent of all the parks in charge of the Commission, that had taken place in the year then ended; and the importance of which had been already illustrated in the introduction of a well-considered system in the conduct of the business of the several parks. The experience of the past year has again fully justified the measure.

In past reports, the Commission have enumerated, under separate heads, the various topics of interest connected with the several parks. All these are now so fully and carefully considered, in ample detail, by the General Superintendent, that the Commission find it unnecessary to do more, in complying with the duties imposed upon them by the ordinance in this

respect, than to refer to his report, which is herewith respectfully submitted.

The only matter of interest that does not seem to fall immediately within the scope of the General Superintendent's duties is the application to the Legislature for the legislation required in view of the completion of the Patterson Park extension, a matter to which the attention of the Councils is most respectfully called.

The Treasurer's report, also herewith presented, exhibits in detail the present financial condition of the Commission.

By order.

D. RAYHICE, *Secretary*.

REPORT OF THE GENERAL SUPERINTENDENT AND ENGINEER.

BALTIMORE, December 31, 1887.

To the Public Park Commission :

GENTLEMEN :

I beg leave herein to submit my report for the month of December, and also a resumé in each case of the work done during the past year.

DRUID HILL PARK.

Caretakers—Constant.

Shepherds	2
Gatekeepers, regular and substitute.....	10
City police on duty.....	2

Workers, Taking Twenty-six Days.

Average number of men per day.....	27
Average number of horses per day.....	8
Aggregate days' work—men.....	719
Aggregate days' work—horses.....	202

Routine Work

Has consisted in the usual care of the park, keeping paths open, drains clean, and the surface of the skating pond in good condition.

Special Work

Has consisted in quarrying road metal, cutting wood, completing the junction of Reservoir street with Mount Royal avenue, and in the prosecution of the work upon the Palm House. Three hundred and fifty-five linear feet of new guard rail have been put up at Reservoir street and painted. Twenty-two cords of wood have been sold during the month, producing \$95.00; and forty-five cords are ready for sale.

The work upon the Palm House has progressed favorably. The iron-work will be completed in about ten days; and the carpenters have put up their scaffolding and are placing the wood-work around the iron frame. A great deal of the galvanized work is ready, and if the weather is favorable in another month all the work will be well advanced.

Sheep on hand December 31: Bucks, 2; buck lambs, 15; ewes, 84; ewe lambs, 18. One sheep has died during the month from diseased liver, which seems to be the usual cause of death with them.

Properties of every kind are in good order.

Work animals all in good condition, except one of the old stock of horses, which is giving out.

Among the zoological collection we have lost two monkeys; cause unknown, as the monkey house is in better condition than ever before, with new heating apparatus and every convenience.

The sea lion is in excellent health, and has a good appetite; so has the one remaining bear.

No arrests have been made during the month.

Gate Record.

IN.

GATEWAY.	Two-horse Carriages.	One-horse Carriages.	Phaetons.	Omnibuses.	Furniture.	Bicycles.	Equestrians.	Pedestrians.
Mount Royal.....	483	1,453	.....	.....	.....	86	213	1,092
Madison & Eutaw.	2,089	3,413	.....	.....	.....	166	145	13,312
Fulton Avenue...	259	1,115	.....	.....	.....	133	274	9,242
West Gate.....	68	856	.....	.....	.....	2	82	558
Pimlico.....	836	4,453	.....	.....	.....	336	511	776
Green Spring.....	210	696	3	1	.....	11	58	317
Total.....	3,945	11,986	3	1	.....	614	1,283	25,297

OUT.

GATEWAY.	Two-horse Carriages.	One-horse Carriages.	Phaetons.	Omnibuses.	Furniture.	Bicycles.	Equestrians.	Pedestrians.
Mount Royal.....	488	1,464	.....	.....	.....	90	234	830
Madison & Eutaw.	2,098	3,391	.....	.....	.....	141	115	13,158
Fulton Avenue...	300	1,194	1	.....	.....	23	318	8,766
West Gate.....	53	856	.....	.....	.....	.....	64	430
Pimlico.....	877	4,576	.....	.....	.....	354	547	837
Green Spring.....	199	606	3	.....	.....	12	63	303
Total.....	4,015	12,087	4	.....	.....	620	1,341	24,324

Condition of Leases.

All dues have been paid for this year, excepting \$200 still due from the Irvins, and \$25 for the swings, which we have not been able to collect.

Resumé of Work Done During the Year 1887.

January and February.—Road metal was quarried whenever the weather permitted.

March.—Quarrying road metal. Excavated head of Boat lake of sand and silt, and constructed two sand-traps of masonry, which have since then kept it entirely clear of deposit. New hydrant put in on Pimlico road, near Palm House. One-third of an acre of ground purchased from Poole & Hunt, adjoining Tempest Hill, for quarrying purposes; price, \$500. Contract made with M. Gault & Son for the blue-stone walk to the Mansion from Madison avenue gate.

April.—Quarrying blue-stone. Set out thirty-five trees; set out twenty-four in nursery. Bought ten mules at \$220 each, and arranged stable to accommodate twenty-two head of stock; also, built new harness-room and camel stable. Put up permanent iron gates on stone foundation at Upper Mount Royal and Pimlico entrances. Roadway to Tempest Hill resurfaced and straightened. Detailed drawing and specification of Palm House submitted to Commission.

May.—Opened two cut-off roads at upper end of Druid Lake. Constructed drainage system from near barn and camel lot to Swann avenue. Completed Len-

nox street entrance. Another sea lion died, leaving but one. M. Gault & Son began stone walk. Citizens' Passenger Railway began extension into park. Terra cotta pipe laid in May from camel lot to Swann avenue: Terra cotta pipe, twelve-inch, two hundred and eighty-one feet; terra cotta pipe, eight-inch, four hundred and seventy feet; terra cotta pipe, six-inch, one thousand and eighty-four feet; terra cotta pipe, four-inch, four hundred and thirty feet.

June.—M. Gault & Son laying stone walk. One thousand and thirty-three linear feet of new guard fence built and eight hundred and forty-two feet rebuilt. New platform built around monkey-house. Citizens' Line finished and running to Council Grove Station.

July and August.—M. Gault & Son finished blue-stone walk on time; cost, \$8,879.72; length, three thousand seven hundred and fifty-nine feet. Foundation of Palm House dug out August 31. On July 18 and 20 terrible storms occurred, destroying and injuring four hundred and seventy-five trees. Boundary avenue sewer caved in near Mount Royal entrance, carrying away iron park rail and making large crater in park. One thousand feet of gutter was torn up; cost of repairs, \$1,500. Laid one thousand two hundred and sixty linear feet of new stone gutter, and relaid three thousand six hundred and sixty feet of brick gutter, mostly in connection with blue-stone walk. Built fourteen new inlets; drain pipe laid twenty-seven feet of eighteen-inch, twenty-one feet of fifteen-inch, three hundred and twenty-one feet of twelve-inch, and fifty-three feet of eight-inch. Built

four hundred and twenty-four feet of new guard fence. Number of picnics for the season, one hundred and eighty-five, containing fifty-five thousand five hundred people. Actual travel on the park extension of the Citizens' Passenger Railway from June 17 to August 31, twelve thousand two hundred and thirty passengers each way—or a total of twenty-four thousand four hundred and sixty.

September.—Finished up sodding along margin of blue-stone walk. Finished drainage from Swann avenue to Lake drive, laying two hundred and fifty-four feet of twenty-inch pipe; one hundred and seventy feet of eight-inch; twenty-seven feet of six-inch, and twelve feet of four-inch; also one hundred and seventy feet of half circle eighteen-inch pipe in stone canal west of Swann avenue. Built twelve new inlets in connection with this work, and one safety vent at Lake drive. Laid new brick gutter four hundred feet; relaid old gutter in stone two hundred and eighty-five feet. New guard rail, four hundred feet; rebuilt old guard rail, seven hundred feet. Painted twelve hundred feet of guard rail; interior of Propagating House; and fifty-eight park benches. Masons began foundation of Palm House September 8. Bricklayers began September 13.

October.—Cording wood and resurfacing Tempest Hill esplanade. Laid one hundred and fifty-four feet of new brick gutter, and put up and painted three hundred and fifty feet of new guard rail.

November.—Completed Tempest Hill esplanade; thickness of metal, twelve to fifteen inches; cost,

\$1,730 for two thousand and twenty-six cubic yards of metal. Laid terra cotta drain pipes—sixty feet of eighteen-inch, two hundred and five feet of fifteen-inch, three hundred feet of twelve-inch, twenty-four feet of eight-inch, and twenty-four feet of six-inch. Built five new inlets and rebuilt head wall of culvert at Green Spring avenue gateway. Planted out and boxed two hundred and twenty-one deciduous trees; planted out one hundred and forty-nine deciduous shrubs and eight thousand acorns. Placed in nursery three hundred and sixty young trees; potted five hundred acorns in Propagating House, which also contains eight thousand and ten bedding plants for next spring. Palm House masonry and brick-work completed and iron-work going up.

The principal work in view at this time for the coming year is the completion of the Palm House, and the addition of the Conservatory wings as soon as funds will permit, in connection with which the drawings for the wings will be executed. There is also an important drainage work to be executed from the Boat Lake to the Lake drive, also a great deal of remaking of drives, etc.

As to the matter of funds for the prosecution of the Conservatory, I understand from his Honor the Mayor, and also from Mr. Carter, that the suit against the Union Railway will come up about January 21, or early in February. If successful, we will benefit largely in resources.

It will be very important to be informed of any contemplated moves in the Council this month on the part

of the railways, looking to an entrance into the park, so as to prevent the hurrying of ordinances through that body. Cedar avenue is backward, and the date at which an entrance into the park will be constructed uncertain.

As I have been unable to this date to get any positive information in regard to the slag block pavement for Mount Royal avenue, I can only state that I believe we can lay the asphalt block for about \$1.50 per square yard, which will require an outlay from Mount Royal gate to Lennox street of the sum of \$486, and from Lennox street to the north end of Creager's houses of \$667. The latter is what is especially asked for at this time.

Some time ago complaint was made that Mount Royal avenue gate was closed too soon at night. Orders were at once given to keep it open until eleven P.M. But a short time elapsed, however, when complaints were made by the residents that they were disturbed by fast teams, which used the road between the lower and upper gates as a race track, upon which the old order to close at seven P.M. in winter was again put in force, as the result showed its wisdom.

I append a table showing the result of careful supervision in regard to certain items of expenditure which are liable to suffer from the want of such care.

DRUID HILL AND PATTERSON PARKS.

WORK ANIMALS.	1884.	1885.	1886.	1887.
<i>Average number.....</i>	17 $\frac{2}{3}$	17 $\frac{2}{3}$	17 $\frac{2}{3}$	20
Oats, bushels.....	2,762	3,172	2,964	3,335
Corn, bushels.....	752	1,696	738	737
Middlings, bushels.....	296	215	300	302
Chop, pounds.....	4,500	4,200	1,415	.....
Hay, pounds.....	13,228	19,584	1,260	5,550
Straw, pounds.....	9,987	9,617	6,745	450

Cost of Food, Etc.

	1884.	1885.	1886.	1887.
Feed	\$2,236 19	\$2,299 37	\$1,909 55	\$1,840 63
Horse-shoeing	304 59	411 38	384 75	409 13
Plumbing and roofing	1,114 26	1,548 34	835 03	622 38
Tools and hardware.....	282 80	256 28	228 50	191 96
Farm and lawn machinery and repairs.....	592 21	475 15	889 39	470 54
Fuel	658 67	826 30	725 52	660 78
Carts, wagons, carriage, har- ness, and repairs.....	1,297 00	1,420 05	613 19	2,032 73
Food for show animals.....	1,104 12	1,427 51	1,493 15	974 19
Feeding work animals, per head.....	126 00	130 00	108 00	92 00

The excessive cost of feeding work animals in the severe winter of 1885 is due, in part, to the fact that a larger amount than usual of corn had to be fed to sheep; but, on the whole, the consecutive years show a true statement. I took charge in May, 1886; since which date every order has gone through my hands. It will be noticed that we fed more work animals in 1887 than ever before. The cause of the excessive outlay for carts, wagons, carriage, harness, and repairs to same, in 1887, arises from the fact that we spent

\$1,165 for new watering wagons, carts, carriage, and harness that year.

It is not my intention to reflect in the least upon the Local Superintendents, who have my perfect confidence, but simply to illustrate the value of a *system* for purchasing supplies.

We have done an amount of work during 1887 which it is impossible to give an adequate idea of, distributed, as it has been, over hundreds of acres, and much of it under ground. This work has been accumulating for years in worn-out roads and imperfect drainage, etc. The demands of the public, also, for more perfect roads and facilities, has led to an increase of work. The construction of the stone walk to the Mansion has been an inestimable benefit to the people; it is always clean and in good condition, and much frequented.

I must bear testimony to the faithful and intelligent service rendered by Captain W. H. Cassell, Local Superintendent, in the conduct of the work at Druid Hill during this past year. Everything now works well and systematically.

*Inventory of Stock, Implements, etc., at Druid Hill
Park, January 1, 1888.*

Zoological.

- 5 Camels.
- 1 Bear.
- 4 Irish Hares.
- 2 Raccoons.
- 6 Monkeys.
- 3 Crested Cockatoos.
- 10 Ring Doves.
- 27 Mixed Birds.
- 2 Hawks.
- 3 German Swans.
- 3 Wild Geese.
- 1 Red Head Duck.
- 1 Sea Lion.
- 2 Wild Cats.
- 6 English Rabbits.
- 12 Guinea Pigs.
- 4 Rose Cockatoos.
- 2 Macaws.
- 1 Raven.
- 6 Prairie Dogs.
- 2 Bald Eagles.
- 1 Eider Duck.
- 2 White Geese.

Stock.

- 6 Horses.
- 102 Ewes.
- 12 Mules.
- 17 Rams.

Vehicles.

- 9 Two-horse water wagons.
- 1 Jagger.
- 1 Express wagon.
- 1 One-horse water cart.
- 1 No-top buggy.

Implements.

- 1 Single roller.
- 2 Oliver plows.
- 4 Harrows.
- 2 Philadelphia mowers.
- 6 Iron rakes.
- 28 Picks.
- 2 Double rollers.
- 3 Hand rollers.
- 1 Hillside plow.
- 2 Champion mowers.
- Single one-horse rake.
- 20 Border hoes.
- 16 Mattocks.
- 12 Dung forks.
- 24 Stone hammers.
- 2 Mortar hoes.
- 8 Long handle shovels.
- 6 Axes.
- 10 Reed brooms.
- 4 Fire axes.
- 75 Feet of three-quarter gum hose.
- 12 Hay forks.
- 2 Scythes.
- 6 Crowbars.

- 12 Ice hooks.
- 18 Snow shovels.
- 1 Fire reel, with 130 feet of 3-inch hose (defective).
- 4 Hooks.
- 100 Feet of 1 inch gum hose at gates.
- About 100 deer at large in Park.

Gardeners' Department.

- 1 Brass syringe, large size.
- 2 Pruning saws.
- 1 Pair shears.
- 1 Long handle trimmer.
- 2 Soil screens.
- 2 Shovels.
- 2 Trowels.
- 1 Fumigator.
- 1 Pair of plant shears.
- 4 Water pots.
- 2 Spades.

At Stable.

- 8 Sets of double harness.
- 6 Horse blankets.
- 2 Oil covers.
- 1 Pair of clippers.
- 60 Tons of hay, about.
- 250 Feet of three-quarter rope, with blocks.
- A lot of junk for gaskets.
- 2 Sets of lead harness.
- 2 Gum covers.
- 12 Halters.
- 250 Feet of one-quarter rope, with blocks.
- 7 Wipers for pipe—size, 2, 4, 6, 8, 10, 12, 13, 18, 20.

At Blacksmith's Shop.

- 1 Complete set of blacksmith's tools.
- 1 Lot of new iron and steel.
- Also lot of lumber of different qualities.

Stores and Furniture.

- 6 Stoves at gates.
- 98 Chairs and stools at Mansion House.
- 1 Desk.
- 1 Large stove at Zoological.
- 1 Stove at Local Superintendent's office.
- 10 Spittoons.
- 1 Table.
- 1 Large stove at skating pavilion.

Miscellaneous.

- 1 Dead line and grapple for drowned men.
- Lot of terra cotta pipes of different sizes—4-inch,
6-inch, 8-inch, 18-inch, 20-inch.
- 8 Wheelbarrows.
- 1 Lot of brick.
- 3 Gallons paint.
- 6 Ladders.
- 6 Snow plows.
- 12 Buckets.
- 7 Barrels cement, 5 Norton, 2 Portland.

PATTERSON PARK.

Caretakers—Constant.

Gate-keepers, regular.....	2
Night watchman.....	1
City police on duty.....	1

Workers, Taking Twenty-six Days.

Men, average per day.....	10 $\frac{4}{10} \frac{4}{0}$
Horses, average per day.....	$\frac{7}{10} \frac{7}{0}$
Men, aggregate per month.....	271
Horses, aggregate per month.....	20

Routine Work.

This has gone on as usual, and the park is in excellent order.

Special Work.

This has consisted in the completion of the ice house, which is now ready to receive ice. One hundred and twenty-five linear feet of new guard rail have been put up around water closet at head of lake and painted.

Thirty fine young beach trees have been brought from Druid Hill Park and placed in nursery. The Propagating House is filled with every variety of bedding and foliage plants, also evergreen cuttings, etc.—all doing well.

No arrests made during the month.

Property all in good order.

There was good skating on December 30, but none since.

The electric lights have been put in order for use at a moment's notice.

I would state in regard to the ice house that it has cost us \$940; that it is, practically, indestructible, and that it holds one hundred and twenty-five tons of ice. The reasons for its construction were: That during 1886 we had to purchase \$316.40 worth of ice—about forty tons at \$8.00 per ton; during 1887 it has been higher—I think, \$10.00; also, that the convenience of the skating pond made it easy to fill the house at a cost to us of about twenty-five cents per ton.

Gate Record.

LOMBARD STREET GATE—IN.		LOMBARD STREET GATE—OUT.	
One H. P. C.....	21	One H. P. C.....	15
Two H. P. C.....	244	Two H. P. C.....	186
Bicycles.....	4	Bicycles.....	1
Equestrians..	8	Equestrians.....	9
Pedestrians	1,643	Pedestrians.....	1,400

Resumé of Work During the Year 1887.

In March.—About twenty large trees, many of them twelve inches in diameter, were shifted, sometimes fifty feet, to obviate the overcrowding which exists in many places.

In April.—Gate-keeper's house was built at Eastern avenue. Fifty-seven trees set out, twenty shrubs, and eighteen evergreens.

In May.—Ice cream saloon, etc., repainted and put in order. North wing of Conservatory put in order, and brick wall for platform constructed. Part of support wall of lake rebuilt.

In June.—Asphalt block pavement laid at Lombard street entrance with hexagonal blocks; also, the walk in front of ice cream saloon and the steep walk to the south. Battery reshaped and made accessible by three flights of steps; also graded on top for benches, which were anchored down; also guttered and drained. New boat house completed this month. Mall resurfaced. Two hundred and forty benches out of total of five hundred and eighty firmly anchored to ground. Two hundred and seventy-five feet of new brick gutters laid; thirty feet terra cotta pipe drains and three new inlets. One hundred and thirty-one feet of paths reconstructed.

July and August.—Three hundred and eighty-five feet of new drain pipe laid; thirty-seven new inlets constructed; two thousand three hundred and twelve linear feet of new guard fence built. New landing stage built at boat house, thirty-six feet by five feet. Eastern line fence set out into the extension sixteen feet. Tool house raised eighteen inches, underpinned with brick pillars; all rotten timber taken out; roof repaired, and entire house made as good as new. The old ice house was under this building, but had rotted and fallen in, causing much settlement and damage. One hundred feet of pathway reconstructed.

September.—New brick gutter laid three hundred and fifty feet. New drain pipe laid fifty feet.

October.—New drain pipe laid one hundred and fifty feet. New guard fence built seven hundred feet; new inlets, 4. Cellar of boiler-house under Conservatory rebuilt, lighted, paved, and drained; also new entrance constructed. Water closet at head of lake moved twenty feet to a prepared stone platform and set on brick pillars; everything renovated, cleaned, and drained properly. In connection with this, a stone dam was built across the ravine above the water closet, and future floods provided against by ample provision to pass all flood waters through to the lake. A great deal of grading, fencing, shaping up and painting was involved in this improvement. A good deal of decayed wood removed from Conservatory and replaced substantially. New ice house well under way.

November.—Brick gutter laid, sixty-eight feet, and one new inlet. New guard fence built, three hundred feet. New terra cotta drain-pipe, three inch, laid two hundred and thirty-five feet. One hundred and twenty-seven shade trees set out; two hundred and forty young trees set out in nursery, and four hundred trees pruned.

December.—New ice house completed. There have been used during the year of brick thirty-five thousand; terra cotta pipes, nine hundred feet; one hundred and eight and two-ninths cubic yards stone; thirty-six iron inlet grates; seven hundred and eighteen chestnut guard fence-posts; ten thousand five hundred linear feet guard fence-rails, and ninety-eight barrels of cement. The watering wagon has been rebuilt, and a new cart built on the old running-gear. One thousand

seven hundred and fifty bulbs of crocus, tulips, and hyacinths have been set out for spring flowers. One of the most needed improvements made during the year was the entire reconstruction of the locust walk, which is very steep, and was torn up by every flood. It has been guttered, underdrained, and counter-ditched, and is now as stable as can be desired. Many other small improvements have been made which are not named here, and the park is now in excellent order.

Gate Record.

LOMBARD STREET GATE—IN.		LOMBARD STREET GATE—OUT.	
One H. P. C.	497	One H. P. C.	547
Two H. P. C.	6,236	Two H. P. C.	5,177
Bicycles.	276	Bicycles.	219
Equestrians.	522	Equestrians.	512
Pedestrians.	61,363	Pedestrians.	58,811

List of Shade Trees, Evergreens, and Flowering Shrubbery in Patterson Park.

Shade Trees.

BOTANICAL NAME.	COMMON NAME.
265 <i>Acer Dasycarpum</i>	Silver Maple.
43 <i>Acer Saccharinum</i>	Sugar Maple.
189 <i>Acer Platanoides</i>	Norway Maple.
19 <i>Acer Campestre</i>	English corked-bark Maple.
169 <i>Acer Negundo</i>	Ash-leaved Maple or Box Elder.
117 <i>Tilia Americana</i>	American Linden.
96 <i>Tilia Europea</i>	European Linden.

BOTANICAL NAME.	COMMON NAME.
54 <i>Ulmus Americana</i>	American Elm.
23 <i>Acer Rubrum</i>	Scarlet Maple.
7 <i>Carpinus Betulus</i>	European Hornbeam.
27 <i>Gleditschia Tricanthus</i>	Honey Locust.
38 <i>Liriodendron Tulipifera</i>	Tulip Tree.
13 <i>Salisburia Adiantifolia</i>	Maiden Hair Tree.
3 <i>Salix Babylonica</i>	Weeping Willow.
12 <i>Salix Laurifolia</i>	Mountain Willow.
43 <i>Salix Osier</i>	Basket Willow.
6 <i>Paulownia Imperialis</i>	Japan Tree.
11 <i>Liquidambar-styraciflua</i>	Sweet Gum.
1 <i>Sassafras Officinale</i>	Sassafras Tree.
110 <i>Populus Augulata</i>	Carolina Poplar.
11 <i>Populus Balsamifera</i>	Balsam Poplar.
10 <i>Platanus Occidentalis</i>	American Plane Tree.
37 <i>Fraxinus Excelsior</i>	European Ash.
47 <i>Catalpa Bignonioides</i>	Indian Bean Tree.
2 <i>Larix European</i>	European Larch.
109 <i>Aesculus, Flava, and Hip-</i> <i>pocastanum</i>	Horse Chestnuts.
2 <i>Cerasus Padus</i>	The Bird Cherry Ameri- can.
4 <i>Cerasus Serotina</i>	The Wild Cherry Ameri- can.
25 <i>Cupressus Serotina</i>	Deciduous Cypress.
12 <i>Fraxinus Americana</i>	American Ash.
1 <i>Mimosa Prostrata</i>	Sensitive Tree.
26 <i>Silver Poplar</i>	
12 <i>Cerasus Rubra</i>	Double-flowering Cherry.
28 <i>Betula Alba</i>	White Birch.
61 <i>Fagus Sylvatica</i>	European Beech.
3 <i>Fagus Purpurea</i>	The Purple-leaved Beech.

BOTANICAL NAME.	COMMON NAME.
9 <i>Gymnocladus Canadensis</i> .	Kentucky Coffee Tree.
8 <i>Quercus Alba</i>	White Oaks.
23 <i>Quercus Castanea</i>	Chestnut Oak.
9 <i>Quercus Illicifolia</i>	Common Scrub Oak.
16 <i>Quercus Maccrocarpa</i>	Mossy Cup or Burr Oak.
3 <i>Quercus Rubra</i>	Red Oak.
10 <i>Quercus Robur</i>	English Oak.
9 <i>Morus</i>	Paper Mulberry Tree.
1 American Holly.....	

Total number of shade trees in Patterson Park, 1,714; in nursery, 240; 835 evergreens in nineteen different varieties; 1,865 flowering shrubs—twenty-eight varieties; in Conservatory, 2,725 plants, comprising six hundred varieties.

Inventory of Property—List of Live Stock.

- 2 Horses.
- 2 Swans.
- 4 China geese.
- 3 Macaws.
- 2 Pea fowls.
- 1 Cockatoo.

Inventory of Tools, Etc.

- 3 Carts.
- 1 Buggy.
- 1 Single horse roller.
- 1 Harrow.
- 3 Plows.
- 2 Horse lawn mowing machines.
- 2 English scythes.

- 2 Pair grass edging shears.
- 2 Cross-cut saws, four and five feet.
- 1 Square.
- 1 Hatchet.
- 2 Axes.
- 4 Picks.
- 4 Bits.
- 2 Bricklayers' hammers.
- 2 Bricklayers' trowels.
- 1 Twenty-eight-foot extension ladder.
- 1 Eight-foot step-ladder.
- 9 Long-handle shovels.
- 2 Short-handle shovels.
- 5 Paint brushes.
- 4 Whitewash brushes.
- 1 Wagon.
- 1 Water wagon.
- 1 Snow plow.
- 1 Cultivator.
- 1 Two-horse hay mowing machine.
- 1 Hand mowing machine.
- 1 Pair pruning shears (shrubbery).
- 2 Tree pruning shears.
- 2 Pruning saws.
- 1 Jack plane.
- 1 Fifty-foot tape line.
- 1 Spirit level.
- 1 Brace.
- 2 Manure forks.
- 3 Mattocks.
- 4 Snow scrapers.
- 4 Hay forks.
- 4 Snow shovels.

- 5 Hay rakes.
- 3 Garden trowels.
- 4 Spades.
- 1 Oil can (5 gallons).
- 100 Feet three-fourth-inch hose.
 - 1 Five-foot galvanized pump.
 - 1 Plumber's iron gas pump.
 - 1 Steel cold-chisel.
 - 1 Wheelbarrow.
 - 1 Knee blanket (winter).
 - 1 Summer knee cover.
 - 1 Horse oil cover.
 - 3 Horse blankets.
 - 1 Buffalo robe.
 - 4 Valve keys.
 - 1 Large United States ensign.
 - 1 Set of single wagon harness.
 - 1 Set of single buggy harness.
 - 1 Set of double wagon harness.
 - 2 Sets of cart harness.
 - 4 Large bird cages.
 - 2 Large fire pokers.
 - 2 Large fire rakers.
 - 1 Monkey wrench.
 - 3 Forks.
 - 3 Garden rakes.
 - 2 Garden hoes.
 - 1 Line and reel.
 - 4 Watering cans.
 - 2 Curry combs.
 - 2 Brushes.
 - 1 Sponge.
 - 2 Corn brooms.

- 3 Rattan brooms.
- 1 Wood chisel.
- 1 Sand screen.
- 2 Soil screens.
- 4 Lanterns.
- 3 Stoves.
- 580 Benches.
- 1 Desk.
- 1 Riding bridle.
- 1 Riding saddle.
- 1 Lamp lighter.
- 2 Fumigators.

FINANCIAL STATEMENT.

Druid Hill pay rolls to date.....	\$29,629 64
All other expenses.....	37,976 68
Total.....	<u>\$67,606 32</u>

Patterson Park pay rolls to date.....	\$9,209 65
All other expenses.....	6,837 64
Total.....	<u>\$16,047 29</u>

LIABILITIES.

Liabilities on December 31, 1887, for both parks, estimated as payable during January, 1888:

Total vouchers overdue.....	\$10,018 44
Estimated pay rolls, January.....	2,900 00
Estimated vouchers.....	500 00
Conservatory estimates.....	4,000 00
Borrowed money.....	303 00
Interest on bonds.....	2,000 00
Total.....	<u>\$19,721 44</u>

RESOURCES RECEIVABLE IN JANUARY—ESTIMATED.

Irvin's balance.....	\$ 200 00
Due on swings.....	25 00
One month Baltimore City Passenger Rail- way.....	5,600 00
Three months Union Passenger Railway....	1,500 00
“ “ Central Railway.....	1,500 00
“ “ Citizens' Railway.....	3,600 00
“ “ York Railway.....	300 00
“ “ North Baltimore Railway....	3,500 00
“ “ Peoples' Railway....	1,700 00
“ “ Highlandtown Railway.....	300 00
Total.....	\$18,225 00

FEDERAL HILL PARK.

During the past month the force has consisted of one man, who has been actively employed in opening around the roots of all trees and shrubs and enriching them with good stable manure. All benches not fastened down have been piled under shelter. Drains have been kept open, snow cleaned off the walks, and the place kept in order. All buildings and tools are in good condition.

Financial Statement.

Appropriation.....	\$5,500 00
Rent of observatory.....	325 00
Total resources.....	\$5,825 00
Expenses to date.....	5,789 63
Balance.....	\$35 37

Resumé of Year's Work.

New gravel walk made four hundred and seventy feet by eight feet; iron gas-pipe three inches in diameter laid to observatory—four hundred and seventy-eight feet; galvanized iron water-pipe, three-fourths of an inch in diameter, laid to observatory—one hundred and thirty feet; drain-pipe, terra cotta, two inches in diameter, six hundred and ninety-five feet, laid in a shell ditch.

SQUARE
YARDS.

Sodding laid.....	181
New asphalt blocks laid.....	119
Old blocks taken up and relaid.....	294

Lattice fence around privy, six feet six inches high—eighty-seven linear feet.

Painting tool house fence, body of tool house, roof, doors, and windows of privy.

Wall on Johnson street repointed with cement. Material removed from bluff on Covington street and carted to dump on Fort avenue—four thousand five hundred cubic yards.

Forty piles, sixteen feet long, driven into eastern slope to secure slip.

Ditch for hedge on Covington street and soiled—eighty-one feet in length.

Planting twenty-seven trees and two shrubs.

All trees well mulched with manure.

*South Extension—Estimated Cost of Work to be Done
During 1888.*

Grading Covington street bluff, 5,000 cubic yards, at 30 cents.....	\$1,500 00
Soiling and seeding same.....	500 00
Paving bluff walk, 200 square yards, at \$1.50.	300 00
Shaping and planting plateau.....	200 00
Flight of steps at Grindall street.....	100 00
Total for south extension.....	\$2,600 00

Old Park.

Paving around observatory, 354 square yards, at \$1.50.....	\$ 530 00
Renewing steps on Johnston and Hugh streets.	500 00
Renewing cement gutters.....	250 00
W. C. trough.....	20 00
Footings to one hundred benches.....	100 00
Redressing slopes, fencing, and hedging.....	1,000 00
	\$2,400 00
Total required for the park.....	5,000 00

Inventory of Property.

- 1 Horse lawn mower.
- 96 Benches.
- 1 Pile-driver, complete.
- 4 Spades.
- 30 Pickaxes.
- 3 Mattocks.

- 10 Wheelbarrows.
- 2 Gravel rakes.
- 4 Hay rakes.
- 2 Hay forks.
- 2 Scythes.
- 2 Block chisels.
- 3 Crow bars.
- 2 Hedge hammers.
- 1 Axe.
- 4 Hoes.
- 1 Hatchet.
- 1 Saw.
- 1 Monkey wrench.
- 500 New asphalt blocks.
- 148 Sections two-inch Y. C. pipe.
- 7 Gallons paint.
- 1 Hand lawn mower.
- 1 Screw-driver.
- 1 Edging-knife.
- 1 Line.
- 6 Lengths hose and reel.
- 1 Step-ladder.
- 1 Paving.
- 3 Paving-hammers.
- 1 Spirit level.
- 1 Grindstone.
- 1 Pruning shear.
- 3 Sickles.
- 1 Square.
- 7 Points.
- 2 Chisels.
- 6 Drills.
- 2 Hammers.

- 1 Pitching tool.
- 2 Gutter molds.
- 1 Lot lattice fencing strips.
- 4 Timbers twelve inch by twelve inch by twenty-eight feet.
- 16 Blocks twelve inch by twelve inch by four feet.

RIVERSIDE PARK.

Caretakers—Constant.

Watchman.....	1
Workers, taking twenty-six days.....	2
Average daily force of men.....	2
Average daily force of horses.....	1
Aggregate men.....	52
Aggregate horses.....	26

Routine Work.

Keeping park in order, walks and drains clean, spading up beds, etc.

Special Work.

Sod has been taken up from around three hundred and fifty trees four feet square, and a heavy mulching of stable manure put around each. The nursery has also been put in order, hedges trimmed, etc.

Property.

All in good order, loose benches housed, and everything made snug for the winter.

Financial Statement.

Appropriation	\$4,000 00
Expenditure.....	3,996 65
Balance.....	\$3 35

Resumé of the Year's Work.

Five hundred and thirty-eight linear feet of new fence, seven feet high, has been put up along the eastern boundary.

Five hundred and sixty-eight linear feet of thirty-inch guard fence has been put up around the pavilion.

The iron railing along the Randall-street front has been reset, to correspond with the grading and paving of the sidewalk, which latter was done by the City Commissioner's Department.

Main Drainage Constructed During the Year.

Six hundred and forty linear feet of eighteen-inch terra cotta pipe; two hundred and fifty-one linear feet of fifteen-inch terra cotta pipe; one hundred and twenty-three linear feet of six-inch terra cotta pipe; two thousand and fifty-three linear feet of two-inch terra cotta pipe; all laid three feet deep, and the two-inch pipe laid in shells; twelve new brick inlets built in connection; seven hundred and fifty-three linear feet of brick gutter taken up and relaid; one hundred and fifty-six benches permanently located and fastened down; three new ice boxes built; roof of pavilion,

five hundred and sixty-eight feet of guard rail, and one hundred and thirty-seven benches painted; thirty-five shade trees, fifty-one shrubs, and fifty-eight evergreens set out; the nursery filled with young beeches from Druid Hill; also one hundred and twenty-five Carolina poplar cuttings.

Estimated Cost of Work to be Done During 1888.

Blocks for paving around main pavilion.	\$ 600 00
Moving Johnston street pavilion to a more fitting location.....	300 00
Planting trees.....	120 00
Guard fencing, 800 feet, at 10 cents.	80 00
Painting.....	200 00
Pay rolls, &c.....	2,400 00
Total required.....	\$3,700 00

The moving of Johnston street pavilion to a more public portion of the park has become an absolute necessity, as it has become the resort very often of bad characters.

Inventory of Property.

- 1 Cart.
- 1 Watering cart.
- 1 Horse roller.
- 1 Horse harrow.
- 1 Horse mower.
- 1 Hand mower.
- 470 Benches.
- 8 Wheelbarrows.

- 4 Picks.
- 4 Spades.
- 2 Digging forks.
- 4 Hay rakes.
- 3 Gravel rakes.
- 16 Short-handle shovels.
- 4 Long-handle shovels.
- 2 Hay forks.
- 2 Scythes.
- 1 Edging-knife.
- 4 Section hose and reel.
- 2 Sickles.
- 1 Monkey-wrench.
- 1 Spirit level.
- 1 Oil can.
- 1 Grindstone.
- 1 Pruning shear.
- 1 Hatchet.
- 1 Flag.
- 1 Hammer.
- 2 Chisels.
- 2 Saws.
- 2 Planes.
- 2 Bits and brace.
- 1 Auger.
- 18 Sections eighteen-inch terra cotta pipe.
- 5 " fifteen-inch " "
- 73 " eight-inch " "
- 98 " six-inch " "
- 3 Barrels Rosendale cement.
- 13 Iron grates for inlets.
- 1 Lot old lumber.

JOHNSON SQUARE.

The work on this square during the past month has consisted in keeping it in good order as to its drains, walks, etc. All trees have been opened around their roots and well mulched with stable manure. The only labor employed has been that of the Local Superintendent. Everything is in good condition.

Financial Statement.

Appropriation	\$2,858 02
Expended to date	2,851 43
Balance	\$6 59

Resumé of Work during the Year.

The upper flights of steps at the southwest and southeast corners of the square have been built, thus finishing the ways of access to the square.

Painting all guard fences, all benches, and the tool house.

Six new inlets have been built.

One hundred and fifty linear feet of new brick gutter laid. Five hundred and eighty-eight linear feet of old brick gutter relaid. Seventy-five feet of four-inch terra cotta drain-pipe laid.

Twenty-four trees and four shrubs set out, etc.

During the year the City Commissioner's Department paved the sidewalks around the entire square—a great improvement.

Tulips and hyacinths have been planted for next spring, having been donated by the neighbors.

Estimated Cost of Work to be Done During 1888.

Block pavement, 200 square yards.....	\$ 300 00
Planting, fencing, drainage, etc.	200 00
Maintenance	1,200 00
Total required	\$1,700 00

Inventory of Property.

- 2 Wheelbarrows.
- 1 Iron hand-roller.
- 1 Twenty-inch hand-mower.
- 7 Sections gum hose.
- 3 Long-handle shovels.
- 2 Short-handle shovels.
- 2 Short-handle spades.
- 1 Edging-knife.
- 1 Tree pruner.
- 1 Pair pruning shears.
- 1 Scythe.
- 2 Scythe sneads.
- 1 Sickle.
- 1 Saw.
- 1 Crowbar.
- 1 Syringe.

- 1 Mason's square.
- 2 Bricklayers' hammers.
- 1 Spirit level.
- 1 Axe.
- 1 Hatchet.
- 1 Hand-saw.
- 2 Iron rakes.
- 1 Wooden rake.
- 1 Brace.
- 1 Mason's trowel.
- 1 Hand screen.
- 1 Large oil can.
- 1 Small oil can.
- 3 Pickaxes.
- 1 Signal lamp.
- 1 Step-ladder.
- 1 Mattock.
- 1 Cold-chisel.
- 1 Garden hoe.
- 2 Sodding knives.
- 2 Stamps for marking.
- 1 Monkey-wrench.
- 1 Tool house and furniture.
- 54 Park benches.
- 1 Cask for tobacco water.
- 1 Key street washer.
- 1 Dock weeder.
- 80 Linear feet two-inch tile pipe.
- 1800 Linear feet one-inch pine boards.

COLLINGTON SQUARE.

This park is in gradual course of construction. No work has been done since November. The Local Superintendent at Johnson Square visits it twice a week to look after the property. All portable tools have been removed to Patterson Park and stored.

Financial Statement.

Appropriation.....	\$1,000 00
Expended....	999 13
Balance.....	87

The year's work has consisted entirely of grading, sodding, and seeding.

Estimated Cost of Work to be Done During 1888.

We need, and should have, for the prosecution of the work on this park the sum of at least \$3,000. The bad policy of making a smaller appropriation consists in the fact that partially executed work suffers much from the weather, and a good deal has to be spent in repairing damages. Again, we must now begin to fence in and plant trees, which take time to grow. The neighborhood is rapidly building up because of the park.

FRICK'S TRIANGLE.

During the past month one hundred linear feet of iron railing has been erected, and thirty feet more delivered. This exhausts our appropriation. The balance will be put up by spring.

Financial Statement.

Appropriation	\$1,000 00
Expended	1,000 00

Estimated Cost of Completion of this Triangle.

Completion of iron railing.....	\$200 00
Hedging	125 00
Planting of shrubbery.....	50 00
Shaping up slope, etc.....	100 00
Painting railing.....	25 00
Total required.....	\$500 00

PATTERSON PARK EXTENSION.

I can only renew my suggestion of last month, that the enabling act required be passed by the Legislature this winter, so that the loan required may be voted on by the people at the first opportunity.

Financial Statement.

Balance on hand December 31, 1886.....	\$355 03
Expended during 1887.....	16 10
Balance.....	\$338 93

Before closing, I beg leave to submit a few items of interest:

On May 24 occurred the only case of violence against a female within the limits of Druid Hill Park of

which we have any knowledge. On this occasion Mrs. Rigney was brutally assaulted by a negro, and much injured. Every effort was made to catch the offender, which was effected by Officer Bowesox, of the county police, in a most creditable manner. The man was tried, convicted, and sentenced to fifteen years in the Penitentiary.

Captain Cassell earnestly recommends—in which I heartily concur—that the Commission pass a resolution thanking Officer Bowesox for his efficient conduct—especially, as it was entirely outside of his jurisdiction.

During the past summer three suicides have taken place in Druid Hill Park—two by shooting and one by drowning; making a mournful list of twenty-one since the park was opened in 1860—a period of twenty-seven years.

Captain Cassell also mentions, as a rule, the efficiency of the officers detailed by Marshal Frey for park duty, and his willingness always to replace inefficient men, upon complaint, with better ones. Owing to the increased use of the park by the public—especially women and children—it is desirable that we should have twelve officers to keep order between May and November; that is, four more than we had during the past year. It was also found essential during the past year to place a watchman, at night, between the upper and lower Mount Royal gates to preserve order.

I would respectfully ask that your General Superintendent and Engineer be empowered, when *necessary* in his judgment, to employ draughtsmen, or other

assistants, *temporarily*. Emergencies sometime arise when it is impossible to get along without special aid.

It may be of interest to know that the ten electric lights at Patterson Park cost during the past year \$845 for one hundred and sixty-nine nights' use. Our gas bill in 1886 was only \$98.65; but at ordinary rates would be about \$200 per annum. Of course we get much more light now; but I think, as we only burn up to twelve o'clock, fifty cents per lamp per night is high.

It gives me pleasure to acknowledge the faithful and intelligent services of all the Local Superintendents during the past year, and to state that they all take a warm personal interest in the well-being of the parks placed under their charge.

LIST OF EMPLOYEES—NAMES AND COMPENSATION.

Charles H. Latrobe, General	
Superintendent and Engineer..	\$2,500 00 per annum.
D. Rayhice, Secretary and Treas-	
urer.....	1,200 00 “
Milton E. Faul, Assistant to	
General Superintendent and	
Engineer	75 00 per month.

Druid Hill Park.

William H. Cassell, Local Super-	
intendent.....	\$1,500 00 per annum.
William D. Hamilton, Gardener.	12 00 per week.

James Hinton, Gate-keeper, main entrance.....	1 25	per day.
Walter King, Gate-keeper, main entrance (at night).....	1 25	"
Joseph M. Hooper, Gate-keeper, railway gate, Fulton avenue...	1 25	"
Daniel Simonds, Gate-keeper, Mount Royal gate.....	1 25	"
John Murphy, Gate-keeper, Mount Royal gate (at night).....	1 25	"
Philip McIntyre, Gate-keeper, upper gate, Mount Royal avenue.....	1 25	"
Barney Donnelly, Gate-keeper, Reisterstown road gate.....	1 25	"
William Williams, Gate-keeper, Northwestern gate.....	1 43	"
I. Blizzard, Gate-keeper, Green Spring avenue gate.....	1 25	"
Albert Fisher, Gate-keeper, Green Spring avenue gate (at night)..	1 25	"
Frank Walter, Watchman.....	10 00	per week.
Charles Morgan, in charge of animals.....	11 00	"
George Fossil, Shepherd.....	10 00	"
Kasper Kentner, Assistant.....	9 00	"
M. Almony, Carpenter.....	1 75	per day.
George O. Bryan, Stableman.....	1 66 $\frac{2}{3}$	"
Drivers and Laborers.....	1 66 $\frac{2}{3}$	"

Patterson Park.

Archibald Anderson, Local Superintendent	\$800 00 per annum.
S. Barton, Gate-keeper, Lombard-street entrance	8 00 per week.
Thomas Knox, Gate-keeper, Eastern avenue entrance	9 00 “
James Fairley, Watchman	1 50 per night.
Drivers and Laborers	1 66 $\frac{2}{3}$ per day.

Riverside and Federal Hill Parks.

Thomas Clark, Local Superintendent	\$15 00 per week.
Laborers	1 66 $\frac{2}{3}$ per day.
One Watchman	1 00 “

Johnson Square.

Frank McLain, Local Superintendent	\$12 00 per week.
Laborers	1 66 $\frac{2}{3}$ per day.

*Area of the Parks under the Control of the Public
Park Commission.*

	ACRES.
Druid Hill Park contains	693
Patterson Park and Extension contains.. . . .	113 $\frac{1}{2}$
Riverside Park contains.	17 $\frac{1}{4}$
Federal Hill Park contains	8 $\frac{1}{4}$
Johnson Square contains	2 $\frac{5}{10}$ $\frac{8}{0}$
Collington Square contains	5 $\frac{1}{10}$ $\frac{4}{0}$
Total	839 $\frac{7}{10}$ $\frac{2}{0}$

Respectfully submitted,

C. H. LATROBE,

*General Superintendent and Engineer of Public
Parks.*

REPORT OF THE SECRETARY AND TREASURER.

*Receipts and Expenditures of Druid Hill Park, year
ending December 31, 1887.*

	DR.	CR.
To interest.....	\$33,067 20	
“ pay rolls and improvements.	67,606 32	
By City Passenger Railway Company, four-fifths of receipts.....		\$53,356 21
“ Citizens’ Railway Com- pany, four-fifths of re- ceipts.....		10,668 05
“ York Road Railway Com- pany, four-fifths of re- ceipts		913 74
“ North Baltimore Railway Company, four-fifths of receipts.....		11,762 84
“ Union Railway Company, four-fifths of receipts...		4,543 47
“ Central Railway Company, four-fifths of receipts...		4,799 83
“ Peoples’ Railway Com- pany, four-fifths of re- ceipts		4,601 82
Amounts carried forward...	\$100,673 52	\$90,645 96

	DR.	CR.
Amounts brought forward..	\$100,673 52	\$90,645 96
By Highlandtown and Point Breeze Railway Com- pany, four-fifths of re- ceipts		552 97
“ fines		105 00
“ boat privileges.....		300 00
“ rent of Mansion House, \$377.50 and \$1,600.....		1,977 50
“ use of gas.....		1 13
“ sale of deer.....		321 48
“ sale of ice.....		92 00
“ sale of wood.....		498 50
“ sale of sheep.....		765 00
“ sale of horses.....		65 00
“ sale of wool.....		138 84
“ privilege of camels, goats, etc.....		75 00
“ privilege of swings.....		25 00
“ rent of stone dwelling....		452 00
	\$100,673 52	\$96,015 38

*Receipts and Expenditures of Patterson Park, year
ending December 31, 1887.*

	DR.	CR.
To interest.....	\$ 8,266 76	
“ pay rolls and improve- ments.....	16,047 29	
By City Passenger Railway Company, one-fifth of receipts.....		\$13,339 06
“ Citizens' Railway Com- pany, one-fifth of re- ceipts		2,667 00
“ York Road Railway Com- pany, one-fifth of re- ceipts		228 42
“ North Baltimore Railway Company, one-fifth of receipts		2,940 70
“ Union Railway Company, one-fifth of receipts...		1,135 86
“ Central Railway Company, one-fifth of receipts...		1,199 96
“ Peoples' Railway Com- pany, one-fifth of re- ceipts.....		1,150 45
“ Highlandtown and Point Breeze Railway Com- pany, one-fifth of re- ceipts.....		138 24
Amounts carried forward...	\$24,314 05	\$22,799 69

	DR.	CR.
Amounts brought forward..	\$24,314 05	\$22,799 69
By Rent of Refreshment Sa- loon and Boats.....		400 00
“ Privilege of Swings.....		40 00
“ Fines...., ...		15 00
“ Sale of Horse.....		50 00
“ Labor, for Patterson Park Extension.....		5 00
	\$24,314 05	\$23,309 69

*Balance Sheet, Druid Hill and Patterson Parks, year
ending December 31, 1887.*

	DR.	CR.
To interest... ..	\$41,333 96	
To pay rolls and improvements.	83,653 61	
By balance due Park Board December 31, 1886.....		\$ 5,695 46
By receipts from City Passenger Rail- way Company....	\$73,038 08	
Less sinking fund (after deducting \$41,333.96 for in- terest)	6,342 81	
		66,695 27
By receipts from Citizens' Railway Company.....	\$16,668 81	
Less sinking fund..	3,333 76	
		13,335 05
By receipts from York Road Rail- way Company... ..	\$1,427 71	
Less sinking fund..	285 55	
		1,142 16
By receipts from North Baltimore Railway Com- pany.....	\$18,379 43	
Less sinking fund..	3,675 89	
		14,703 54
Amounts carried forward..	\$124,987 57	\$101,571 48

	DR.	CR.
Amounts brought forward..	\$124,987 57	\$101,571 48
By receipts from		
Union Railway		
Company.....	\$7,099 15	
Less sinking fund..	1,419 82	
		5,679 33
By receipts from		
Central Railway		
Company.....	\$7,499 73	
Less sinking fund..	1,499 94	
		5,999 79
By receipts from		
Peoples' Railway		
Company.....	\$7,190 34	
Less sinking fund..	1,438 07	
		5,752 27
By receipts from		
Highlandtown		
and Point Breeze		
Railway Com-		
pany.....	\$864 02	
Less sinking fund..	172 81	
		691 21
By rent of Mansion House,		
stone dwelling, refreshment		
saloon, sale of sheep, wood,		
deer, privilege of swings,		
fines, etc.....		5,326 45
By balance.....	32 96	
	\$125,020 53	\$125,020 53

*Expenditures of Patterson Park Extension, year
ending December 31, 1887.*

	DR.	CR.
By balance December 31, 1886.		\$355 03
To improvements.	\$ 16 10	.....
To balance.	338 93	.....
	\$355 03	\$355 03

*Expenditures of Federal Hill Park, year ending
December 31, 1887.*

	DR.	CR.
By appropriation.		\$5,500 00
By rent of Observatory.		200 00
By rent of Ice Cream Saloon.		125 00
To improvements and maintenance.	\$5,789 63	
To balance.	35 37	.....
	\$5,825 00	\$5,825 00

*Expenditures of Johnson Square, year ending
December 31, 1887.*

	DR.	CR.
By appropriation.....		\$2,858 02
To improvements and maintenance.....	\$2,851 43	.....
To balance.....	6 59	.....
	\$2,858 02	\$2,858 02

*Expenditures of Riverside Park, year ending
December 31, 1887.*

	DR.	CR.
By appropriation.....		\$4,000 00
To improvements and maintenance.....	\$3,996 65	.....
To balance.....	3 35	.....
	\$4,000 00	\$4,000 00

*Expenditures of Collington Square, year ending
December 31, 1887.*

	DR.	CR.
By appropriation.....		\$1,000 00
To improvements.....	\$999 13	.....
To balance.....	87	.....
	\$1,000 00	\$1,000 00

*Expenditures of Frick's Triangle, year ending
December 31, 1887.*

	DR.	CR.
By appropriation.....		\$1,000 00
To improvements.....	\$1,000 00	.....
	\$1,000 00	\$1,000 00

Music at the Parks.

Appropriation and expenditure.....	\$3,000 00
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COMPARATIVE STATEMENT.

RECEIPTS.	1885.	1886.	1887.
Receipts from City Passenger Railway Company, ending December 31, less Sinking Fund.....	\$61,948 52	\$64,070 11	\$66,695 27
Receipts from Citizens' Railway Company, less Sinking Fund.	12,194 00	12,485 65	13,335 05
Receipts from North Baltimore Railway Company, less Sinking Fund.....	14,216 49	14,192 74	14,703 54
Receipts from York Road Railway Company, less Sinking Fund.....	925 14	1,034 49	1,142 16
Receipts from Union Railway Company, less Sinking Fund.....	4,415 88	4,706 54	5,679 33
Receipts from Central Railway Company, less Sinking Fund.....	6,189 73	5,441 82	5,999 79
Receipts from Hall's Springs Railway Company, (Sale of Stock).....	1,272 80	.....	.....
Receipts from Peoples' Railway Company, less Sinking Fund.....	776 25	.....	5,752 27
Receipts from Highlandtown and Point Breeze Railway Company, less Sinking Fund.....	.....	.....	691 21
	\$101,938 81	\$101,931 15	\$113,998 62

Deduct interest on Park Stock, as per Register's Account.....	41,333 96	41,333 96	41,333 96
Remaining for Park Purposes.....	\$60,604 85	\$60,597 19	\$72,664 66
Of which one-fifth goes to Patterson Park.....	12,120 97	12,119 43	14,532 93
And balance to Druid Hill Park.....	\$48,483 88	\$48,477 76	\$58,131 73
<i>Add Resources Peculiar to Druid Hill Park:</i>			
Rent of Mansion House, \$1,977.50; Stone Dwelling, \$452.....	1,332 50	2,378 50	2,429 50
Sale of Sheep, Deer, Wood, Wool, etc., Privilege of Swings, etc.....	1,466 40	1,475 55	1,981 95
Fines.....	40 00	60 00	105 00
Boat Privilege.....	.....	200 00	300 00
	\$51,322 78	\$52,591 81	\$62,948 18
<i>Add Resources Peculiar to Patterson Park:</i>			
Rent of Saloon, and Boat Privilege, Fines, Privilege of Swings, etc.....	228 85	405 00	510 00
Patterson Park, one-fifth of General Revenue....	12,120 97	12,119 43	14,532 93
Total applicable to both parks.....	\$63,672 60	\$65,116 24	\$77,991 11

EXPENDITURES.

	1885.	1886.	1887.
Labor and Materials to December 31, Druid Hill Park.....	\$60,272 75	\$48,152 22	\$67,606 32
Labor and Materials to December 31, Patterson Park.....	12,348 90	11,756 11	16,047 29
	<u>\$72,621 65</u>	<u>\$59,908 33</u>	<u>\$83,653 61</u>

ANNUAL REPORT

OF THE

WATER DEPARTMENT

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1887.

Officers of the Water Board,

DECEMBER 31, 1887.

COMMISSIONERS.

HON. FERDINAND C. LATROBE, MAYOR,
Ex-officio President.

JOHN F. HUNTER, *Secretary.*

WM. A. MARBURG,

JOHN E. HURST,

SAMUEL W. REGESTER,

JOS. S. HEUISLER.

CLINTON P. PAINE.

REGISTRAR'S DEPARTMENT.

E. SHRIVER, *Water Registrar.*

JAMES A. MARRIAN, *General Book-Keeper.*

JAS. S. ETCHBERGER, *Cashier.*

J. J. C. SCULLY, *Clerk of Errors.*

WM. GILMOR, of WM., *Ledger Clerk.*

WM. A. MALONEY, “

WM. F. HYNSON, “

JOHN GIBSON, “

SAMUEL A. HART, “

J. BEALE HOWARD, “

E. A. HOGG, *Meter and New Supply Clerk.*

BENJ. PRICE,

GEO. A. COLEMAN,

JOHN D. ALCOCK,

D. G. CARLISLE,

S. L. AUERBACH,

JOHN T. KERNS,

LEONARD C. HORNICK,

BARNEY L. HESS.

District Inspectors

and

Bill Distributors.

GEORGE W. EMMERICH, *Hydrant Inspector.*

ENGINEER'S DEPARTMENT.

ROB'T K. MARTIN, *Chief Engineer.*

WM. L. KENLY, *Engineer and Superintendent County Division.*

MATHEW O'BRIEN, *Draughtsman.*

RICHARD D. MURPHY, *Clerk.*



REPORT.

BOARD OF WATER COMMISSIONERS—CITY HALL,
BALTIMORE, JANUARY 2, 1888.

*To the Honorable the Mayor
and City Council of Baltimore :*

GENTLEMEN :

In compliance with the duty imposed by the ordinance creating the Water Department, the Water Board of Baltimore City have the honor of submitting a detailed account of their labors for the past year, together with such recommendations as in their judgment would tend to increase the efficiency of the service and lighten the burden of cost to the consumer.

There remained to the credit of the Water Department on December 31, 1886 :

Permanent supply account	\$3,833 52
Lake Clifton account	606 00
Revenue account.....	27,339 45

Making a total of.....	\$31,778 97
------------------------	-------------

Net receipts from all sources for year ended

December 31, 1887	796,345 30
-------------------------	------------

Gave amount available for 1887....	\$828,124 27
------------------------------------	--------------

The disbursements during the year ended

December 31, 1887, amounted to.....	814,356 15
-------------------------------------	------------

Leaving balance December 31, 1887.	<u>\$13,768 12</u>
------------------------------------	--------------------

Of which there belonged to per-		
manent supply account.....	\$3,833	52
To revenue account.....	9,934	60
		\$13,768 12

The net revenue for the year 1887, from water rents, meter supplies, etc., after deducting \$32,020.66 discount on 1887 water rents, was \$696,345.30, as against \$656,367.42 in 1886—an increase of \$39,977.88. Applications for new supplies made during the year will yield an annual revenue of \$25,474.50, charged as follows: \$20,768.00 in the city and \$4,706.50 in the county. The expenditures for Lake Clifton and Lake Clifton mains, during the year, amount to \$169,873.83; of this amount \$169,022 83 has been drawn from revenue account. The water tax collected by the city collector and transferred to the Water Board during the year was \$50,421.20.

A temporary loan of \$100,000.00 was made through the City Register on the 31st October last. This was made necessary by the failure of the Finance Commissioners to negotiate the three per cent. loan—the Board being compelled to use its revenue for permanent improvements.

The Board propose preparing and submitting for the consideration of the Council a revised schedule of water rates based upon a uniform reduction to all classes of water consumers, which, while not impairing its ability to meet the fixed expenses and current requirements of the Department, will afford relief to the water takers at an early date. Similar reductions can be made in the

near future, as the revenue and needs of the service justify, until the water rates become merely nominal. The increased use of water and economical management of the Department has again placed it in a condition to pay the interest on the various water loans and to meet its current expenses.

No part of the one million issue of stock has yet been sold.

The Commissioners of Finance, doubting their ability to dispose of it at par, as directed by the act authorizing the loan, requested the City Solicitor to prepare a supplementary ordinance increasing the rate of interest to four per cent., which was passed by the Council and ratified at the late municipal election.

The Board, by authority of the Council, disposed of the property known as the Gunpowder Copper Works, reserving all water rights, and purchased the New Market tract and the remainder of the Glen Ellen estate—both properties lying contiguous to Loch Raven.

The slopes of the hills on each side of the stream being now owned by the city no damage from pollution of water need be apprehended.

The appropriation of four thousand dollars by the City Council for the erection and maintenance of fire-plugs and fountains is entirely inadequate and has always been a cause of embarrassment to the Board. During the past twenty years repeated applications have been made to the Council for the exercise of wiser liberality,

but without success. The annual appropriation for this purpose should not be less than fifteen thousand dollars. The increased capacity of the fire-engines, the proposed increase in their number, and the wide expanse of territory now being improved, demand prompt and liberal action.

The supply of water in the southern and northeastern sections of the city has been largely increased, and the requirements of other portions of the city will receive attention during the coming summer.

Work will be commenced during the next season upon the Eastern High Service Reservoir, to be located at a point sufficiently elevated to supply all the eastern and northern urban and suburban districts.

The pumps of the Temporary Supply will be removed from Meredith's Ford to a point within the city.

In conclusion the Board invites your attention to the accompanying reports of the chief officers of the Department, giving more complete details of the working of the Department for the past year.

FERDINAND C. LATROBE,
President Ex-officio.

JOHN F. HUNTER, *Secretary.*

WM. A. MARBURG.

JOHN E. HURST.

SAMUEL W. REGESTER.

JOS. S. HEUISLER.

CLINTON P. PAINE.

WATER REGISTRAR'S REPORT.



REPORT.

WATER REGISTRAR'S OFFICE—CITY HALL,
BALTIMORE, December 31, 1887.

*To the Honorable the President and
Members of the Water Board:*

GENTLEMEN:

The Registrar is directed by City Ordinance No. 10, Section 8, to have prepared statements showing the receipts and disbursements of the Registrar's Department for the year ending December 31, 1887.

In compliance with said ordinance the following statements have been prepared and are most respectfully submitted:

The receipts for the year were as follows:

From 1887 water rents.....	\$387,757 02
“ 1886 “ “	117,732 40
“ 1885 “ “	6,972 39
“ 1884 “ “	2,267 25
“ Meter rents	108,348 94
	\$623,078 00
Less discount on 1887 water rents.....	32,020 66
Amount carried forward.....	\$591,057 34

Amount brought forward.....	\$591,057 34
From interest	2,247 08
“ plumbing bills.....	39,247 79
“ distributing mains	861 90
“ Gunpowder real estate and water rights	6,492 66
“ Lake Roland	1,031 38
“ Loch Raven	167 27
“ pump-house	16 75
“ Druid Lake	38 00
“ Lake Montebello.....	321 00
“ Mount Royal Reservoir.....	16 00
“ Hampden Reservoir.....	72 25
“ High Service Reservoir.....	19 00
“ Conscience money	40 00
“ Jones’ Falls conduit.....	50 68
“ appropriation for new fire-plugs and fountains	4,000 00
“ water tax	50,421 20
	\$696,100 30
“ Mayor and City Council, loan	100,000 00
“ Lake Clifton	245 00
Net receipts.....	\$769,345 00
Add amount of discount allowed on 1887 water rents	32,020 66
Gross receipts	\$828,365 96

The disbursements for the year were as follows :

Paid Plumbing Department.....	\$14,777 55
“ repairs	11,079 65
“ Lake Roland.....	2,646 46
“ salaries Registrar's Department.....	23,639 52
“ “ Engineer's Department.....	8,333 16
“ pump-house	18,071 13
“ temporary supply	654 55
“ water meters, expenses.....	3,243 40
“ current expenses	3,669 02
“ Druid Lake	3,680 64
“ Printing and stationery	1,424 52
“ High Service Reservoir	380 61
“ Hampden Reservoir	735 49
“ Mount Royal Reservoir	697 51
“ Loch Raven	6,156 52
“ Lake Montebello	6,245 94
“ Water courses	1,138 71
“ Jones' Falls conduit	120 00
Working expenses.....	\$106,694 38
“ Lake Clifton, from material sold	851 00
“ Lake Clifton, from revenue.....	169,022 83
“ distributing mains.....	45,627 77
“ fire-plugs, pumps, and fountains	6,232 28
“ returned money	1,080 55
“ Gunpowder real estate.....	8,200 00
“ real estate and water rights	19 66
“ tools and fixtures.....	1,088 10
“ water meters.....	2,909 58
“ interest on water stock.....	472,630 00
\$814,356 15	

The following statements exhibit in detail the financial transactions of the Department for the year of 1887:

Statement A, Water Registrar's cash account.

“ B, Water Registrar's disbursement account.

“ C, trial balance, general ledger.

“ D, balance sheet.

“ E, receipts.

“ F, disbursements.

“ G, new supplies.

“ H, abatements.

“ I, comparative receipts.

“ K, balance remaining on the books of the
Department December 31, 1887.

“ L, revenue.

Most respectfully submitted.

E. SHRIVER,
Water Registrar.

STATEMENTS.

STATEMENT A.

Water Registrar's Cash Account for the Year 1887.

	DR.	CR.
To balance on hand December 31, 1886	\$2,241 50	
To water rents, 1887	\$387,757 02	
Less discount	32,020 66	
		355,736 36
To water rents, 1886	117,732 40	
“ water rents, 1885	6,972 39	
“ water rents, 1884	2,267 25	
“ meter rents	108,348 94	
“ plumbing bills	39,247 79	
“ interest	2,247 08	
“ distributing mains	861 90	
“ Lake Roland	1,031 38	
“ Loch Raven	167 27	
“ Lake Clifton	245 00	
“ pump-house	16 75	
“ Gunpowder real estate and water rights	6,492 66	
“ Druid Lake	38 00	

Amount carried forward . \$643,646 67

STATEMENT A—Continued.

	DR.	CR.
Amount brought forward.	\$643,646 67	
To Lake Montebello	321 00	
“ Mount Royal Reservoir	16 00	
“ Hampden Reservoir	72 25	
“ High Service Reservoir	19 00	
“ conscience money	40 00	
“ Jones' Falls conduit	50 68	
“ appropriation by Mayor and City Council	4,000 00	
“ water tax	50,421 20	
“ Mayor and City Council loan	100,000 00	
By deposits with City Register, January		\$92,674 67
“ deposits with City Register, February		209,786 58
“ deposits with City Register, March		55,030 63
“ deposits with City Register, April		72,544 94
“ deposits with City Register, May		40,346 80
“ deposits with City Register, June		26,074 79
“ deposits with City Register, July		40,730 96
Amounts carried forward.	\$798,586 80	\$537,189 37

STATEMENT A—Concluded.

	DR.	CR.
Amounts brought forward .	\$798,586 80	\$537,189 37
By deposits with City Register,		
August		16,165 15
“ deposits with City Register,		
September		15,656 67
“ deposits with City Register,		
October		139,238 24
“ deposits with City Register,		
November		12,451 59
“ deposits with City Register,		
December		24,989 94
“ water tax		50,421 20
“ balance on hand December		
31, 1887		2,474 64
	\$798,586 80	\$798,586 80

STATEMENT B.

*Water Registrar's Disbursement Account for the
Year 1887.*

	DR.	CR.
To Water Board warrants drawn on the City Comp- troller, from January 2 to December 31, 1887.....	\$814,356 15	
By Lake Clifton.....		\$80,923 40
“ Lake Clifton distributing mains.....		88,950 43
“ real estate and water rights.....		19 66
“ distributing mains.....		45,627 77
“ Gunpowder real estate and water rights.....		8,200 00
“ tools and fixtures.....		1,088 10
“ water meters.....		6,152 98
“ Lake Roland.....		2,646 46
“ salaries, Registrar's De- partment.....		23,639 52
“ salaries, Engineer's De- partment.....		8,333 16
“ Plumbing Department....		14,777 55
“ pump-house.....		18,071 13
“ repairs.....		11,079 65
“ temporary supply.....		654 55
Amounts carried forward.	\$814,356 15	\$310,164 36

STATEMENT B—Concluded.

Amounts brought forward.		\$814,356 15	\$310,164 36
By current expenses		3,669 02	
“ Druid Lake.....		3,680 64	
“ printing and stationery ..		1,424 52	
“ High Service Reservoir ..		380 61	
“ Hampden Reservoir		735 49	
“ Mount Royal Reservoir ..		697 51	
“ Loch Raven.....		6,156 52	
“ Lake Montebello		6,245 94	
“ water courses		1,138 71	
“ Jones’ Falls conduit		120 00	
“ pumps and fountains		1,938 77	
“ fire-plugs.....		4,293 51	
“ returned money		1,080 55	
“ interest on water stock....		472,630 00	
		\$814,356 15	\$814,356 15

STATEMENT C.

DR.

Trial Balance, General

Folio.		
6	Real estate and water rights.....	\$769,370 86
9	Construction of new works.....	3,155,437 88
49	Mayor and City Council.....	11,293 48
99	Water Registrar's cash.....	2,474 64
112	Gunpowder permanent supply.....	4,117,914 50
116	Lake Clifton.....	578,224 59
120	Gunpowder real estate and water rights.....	229,827 21
130	Distributing mains.....	1,896,100 30
137	Lake Clifton distributing mains.....	198,503 67
158	Tools and fixtures.....	7,273 97
168	Repairs.....	11,079 65
185	Pumps and fountains.....	938 77
188	Lake Roland.....	1,615 08
194	Druid Lake.....	3,642 64
197	High Service Reservoir.....	361 61
201	Hampden Reservoir.....	663 24
205	Mount Royal Reservoir.....	681 51
213	Pump-house.....	18,054 38
215	Temporary supply.....	654 55
226	Current expenses.....	3,669 02
231	Printing and stationery.....	1,424 52
233	Engineer's Department.....	8,333 16
236	Water meters.....	24,889 02
240	Fire-plugs.....	1,293 51
243	Registrar's Department.....	23,639 52
247	Returned money.....	1,080 55
302	Loch Raven.....	5,989 25
312	Lake Montebello.....	5,924 94
321	Water courses.....	1,138 71
326	Jones' Falls conduit.....	69 32
340	Discount.....	32,020 66
		\$11,113,584 71

STATEMENT C.

Ledger, December 31, 1887.

CR.

Folio.

2	City six per cent. water stock.....	\$263,000 00
3	City five per cent. water stock.....	8,737,000 00
3	City four per cent. water stock.....	500,000 00
4	Profit and loss.....	876,289 57
5	Mayor and City Council, loan.....	100,000 00
285	Plumbing Department.....	11,970 06
386	Interest.....	2,247 08
468	Meter rents.....	108,348 94
564	1884 water rents.....	2,267 25
587	1885 " ".....	6,972 39
617	1886 " ".....	117,732 40
632	1887 " ".....	387,757 02

\$11,113,584 71



2

•

\$828,365 96

Disbursements of the Water Department for the Year 1887.

472,630 00

\$814,356 15

STATEMENT G.

New Supplies for the Year 1887.

1339 houses.....	@	\$3 00..	\$4,017 00	
72 “	@	5 00..	360 00	
1073 “	@	6 00..	6,438 00	
155 “	@	7 50..	1,162 50	
809 “	@	9 00..	7,281 00	
140 “	@	12 00..	1,680 00	
31 “	@	14 00..	434 00	
				\$21,372 50
3619				
7 warehouses.....	@	6 00..	42 00	
12 “	@	8 00..	96 00	
31 “	@	10 00..	310 00	
				448 00
3669				
				\$21,820 50
203 baths.....	@	\$2 00..	\$406 00	
118 water-closets	@	2 00..	236 00	
213 hose.....	@	3 00..	639 00	
92 horses	@	1 50..	138 00	
65 carriages.....	@	1 50..	97 50	
40 cows	@	1 00..	40 00	
				\$1,556 50
Amount carried forward				\$23,377 00

Amount brought forward.....\$23,377 00

			PER H. P.		
1	30 H. P. boiler..	@	\$5 00..	\$150 00	
2	15 " " ..	@	5 00..	150 00	
1	8 " " ..	@	5 00..	40 00	
2	6 " " ..	@	5 00..	60 00	
4	4 " " ..	@	5 00..	80 00	
2	3 " " ..	@	5 00..	30 00	
3	2 " " ..	@	5 00..	30 00	
2	drugs.....	@	\$3 00..	6 00	
1	Errick pump.....	@	6 00..	6 00	
9	churches.....	@	10 00..	90 00	
10	offices.....	@	6 00..	60 00	
3	special rents.....	@	50 00..	150 00	
2	".....	@	20 00..	40 00	
1	".....	@	15 00..	15 00	
1	".....	@	6 00..	6 00	
1	".....	@	5 00..	5 00	
1	".....	@	30 00..	30 00	
1	".....	@	12 50..	12 50	
6	motors.....	@	50 00..	300 00	
10	motors.....	@	25 00..	250 00	
2	motors.....	@	20 00..	40 00	
32	cellar drainers...	@	3 00..	96 00	
16	bars.....	@	3 00..	48 00	
24	bars.....	@	5 00..	120 00	
1	oyster establ'h't..	@	10 00..	10 00	
1	oyster establ'h't..	@	5 00..	5 00	
1	butchery.....	@	5 00..	5 00	

Amounts carried forward...\$1,834 50 \$23,377 00

Amounts brought forward.. \$1,834 50 \$23,377 00

3 butcheries.....	@	10 00..	30 00	
2 fountains	@	20 00..	40 00	
1 greenhouse.....	@	20 00..	20 00	
1 laundry.....	@	10 00..	10 00	
1 laundry.....	@	5 00..	5 00	
1 bakery.....	@	3 00..	3 00	
1 dairy	@	5 00..	5 00	
1 marble works....	@	25 00..	25 00	
1 dyer.....	@	5 00..	5 00	
1 watering trough .	@	20 00..	20 00	
4 heaters	@	20 00..	80 00	
2 heaters	@	10 00..	20 00	
				2,097 50
Annual revenue.....				\$25,474 50

STATEMENT H.

Abatements Condensed for the Year 1887.

	1884.		1885.		1886.		1887.	
Vacancies	10	\$108 50	50	\$487 96	255	\$2,382 35	264	\$1,665 46
Duplicates and torn down	47	430 50	63	553 50	129	1,636 49	183	3,184 34
Horses	33	49 50	38	57 00	65	97 50	139	208 50
Carriages	1	1 50	2	3 00	14	21 00	48	72 00
Hose	1	3 00	11	33 00	47	138 75	185	555 00
Rents reduced	1	1 50	4	13 50	24	107 25	84	381 50
Specials			3	85 83	24	541 33	48	1,079 75
Bars			1	3 00	8	25 08	60	207 62
Water closed							2	4 00
		\$594 50		\$1,236 79		\$4,949 75		\$7,358 17

Total amount of abatements for the year..... \$14,139.21.

STATEMENT I.

Comparative Statement of Receipts for the Years 1885, 1886, and 1887.

1885.		1886.		1887.	
1885 water rents	\$363,298 48	1886 water rents	\$375,889 38	1887 water rents	\$387,757 02
1884 " "	111,899 55	1885 " "	113,663 04	1886 " "	117,782 40
1883 " "	5,906 01	1884 " "	6,203 26	1885 " "	6,972 39
1882 " "	2,054 57	1883 " "	2,766 68	1884 " "	2,267 25
Meter rents	85,191 60	Meter rents	95,485 57	Meter rents	108,348 94
	\$568,350 21		\$594,007 93		\$623,078 00
Less discount on 1885 water rents..	29,485 88	Less discount on 1886 water rents..	30,571 03	Less discount on 1887 water rents ..	32,020 66
	\$538,864 33		\$563,436 90		\$591,057 34
Plumbing bills	29,260 65	Plumbing bills	31,186 28	Plumbing bills.....	39,247 79
Interest on back water rents	2,080 09	Interest on back water rents.....	2,101 50	Interest on back water rents	2,247 08
Distributing mains	86 64	Distributing mains.....	559 15	Distributing mains.....	861 90
Gunpowder real estate and water rights.	150 00	Gunpowder real estate and water rights.	225 00	Gunpowder real estate and water rights..	6,492 66
Lake Roland.....	721 16	Lake Roland	783 75	Lake Roland.....	1,031 38
Lake Montebello	18 00	Loch Raven	121 60	Loch Raven	167 27
Loch Raven	124 10	Pump-house	5 25	Pump-house	16 75
Jones' Falls conduit	10 00	Hampden Reservoir.....	78 80	Druid Lake	38 00
Mount Royal Reservoir.....	30 00	Mount Royal Reservoir	15 00	Lake Montebello	321 00
Hampden Reservoir	55 00	High Service Reservoir.....	19 00	Mount Royal Reservoir	16 00
Pump-house	17 58	Profit and loss (conscience money)	40 00	Hampden Reservoir	72 25
Tools and fixtures.....	3 00	Druid Lake	45 00	High Service Reservoir.....	19 00
Druid Lake	18 00	Lake Montebello	86 00	Profit and loss (conscience money).....	40 00
High Service Reservoir	2 00	Real estate and water rights	500 00	Jones' Falls conduit	50 68
Real estate and water rights.....	500 00	Jones' Falls conduit	10 00	Mayor and City Council loan.....	100,000 00
	\$571,940 55		\$599,213 23		\$741,679 10
Lake Clifton	1,360 00	Lake Clifton	3,064 96	Lake Clifton	245 00
Appropriation for water main.....	1,500 00	Appropriation for new fire-plugs and fountains	4,000 00	Appropriation for new fire-plugs and fountains	4,000 00
Appropriation for new fire-plugs, foun- tains, &c.	5,000 00	Appropriation for laying main on Hollins street.....	300 00	Water tax	50,421 20
Part of appropriation for improvement in water supply of the Baltimore City Jail	1,636 72	Water tax	49,789 23		
Water tax	54,252 94				
	\$635,690 21		\$656,367 42		\$796,345 30

STATEMENT K.

*Balances Remaining on the Books of the Department,
December 31, 1887.*

1887 water rents.....	\$127,867 60
1886 water rents.....	11,133 56
1885 water rents.....	5,373 06
Plumbing bills.....	6,752 79
Meter bills.....	1,379 90
	\$152,506 91

STATEMENT L.

Estimated Revenue, per 1888 Ledgers, January 1, 1888.

17,987 houses.....	@ \$3 00..	\$53,961 00	
20,241 ".....	@ 6 00..	121,446 00	
16,107 ".....	@ 9 00..	144,963 00	
7,277 ".....	@ 12 00..	87,324 00	
2,794 ".....	@ 14 00..	39,116 00	
			\$446,810 00
64,406			
220 warehouses..	@ 6 00..	1,320 00	
397 ".....	@ 8 00..	3,176 00	
1,066 ".....	@ 10 00..	10,660 00	
			\$15,156 00
66,089			
			\$461,966 00
5,153 hose.....	@ 3 00..	15,459 00	
2,851 horses.....	@ 1 50..	4,276 50	
1,565 carriages....	@ 1 50..	2,347 50	
H. P. boilers. @	5 00..	7,535 00	
			\$29,618 00
			\$491,584 00
Specials, embracing rents, motors,			
&c., &c.....			
			\$52,228 00
Producing a yearly revenue of.			
Meters and indicators for the			\$543,812 00
year 1887 yielded.....			
			109,728 84
			\$653,540 84

CHIEF ENGINEER'S REPORT.

REPORT.

OFFICE OF THE CHIEF ENGINEER—CITY HALL,

BALTIMORE, JANUARY 2, 1888.

*To the Honorable the President and
Members of the Water Board :*

GENTLEMEN :

I respectfully beg leave to submit my report of the Engineer Department for the year ending December 31, 1887.

There were fitted up by the mechanical department, 60 fire-plugs and 406 stop-cocks, of sizes from 3 to 20 inches.

There were laid in the following-named localities, additional mains, as authorized by Ordinance No. 82, approved June 3, 1886, viz :

A 20-inch, Randall and Covington streets; thence on Covington to Fort avenue; Fort avenue to Harper. Length, 6,019 feet; cost, \$24,658.65, or \$4.10 per foot.

A 20-inch, Park avenue and Biddle street; thence on Biddle to Bond; Bond to Chase; Chase to near Gay. Length, 7,054 feet; cost, \$36,593.72, or \$5.18 per foot.

A 12-inch, Greenmount avenue and Biddle street; thence on Greenmount avenue to Lanvale; Lanvale to Barclay; Barclay to North avenue, and Barclay and Lanvale; thence on Lanvale to Charles; Charles to Townsend; Townsend to Maryland avenue; Maryland avenue to North avenue. Length, 6,114 feet; cost, \$12,360.49, or \$2.02 per foot.

A 10-inch, Biddle and Bond; thence on Bond to Preston; Preston to Ann; Ann to Eager; Eager to Chester; Chester to Fayette. Length, 6,893 feet; cost, \$9,017.37 or \$1.31 per foot.

A 10-inch, Hanover and Hill; thence on Hill to Light; Light to Hughes; Hughes to Covington; Covington to Cross; Cross to Belt; Belt to West; West to Jackson; Jackson to Fort avenue. Length, 5,907 feet; cost, \$8,253.44, or \$1.39 per foot.

A 10-inch, Fort avenue and Hull; thence on Hull to the water. Length, 2,273 feet; cost, \$3,191.43, or \$1.41 per foot.

There were also other localities where larger mains were laid, viz:

Fayette street, between Patterson Park avenue and the city limits, 3,233 feet of 6-inch pipe.

Camden, between Hanover and Light, 740 feet of 10-inch pipe.

Charles street, between Camden and Barre, 801 feet of 8-inch pipe.

Central avenue and Bank street; thence Bank to Exeter; to Eastern avenue; to President; to Aliceanna, 2,200 feet of 10-inch pipe.

Allison alley, from Pratt street to the water, 946 feet of 10-inch pipe.

The following lengths and sizes of pipes were laid for service, distribution and additional supply, viz:

25,452 feet 6 inches of 1½-inch service pipe.							
189	“			1½	“	for distribution.	
1,083	“	6	“	2	“	“	“
16,998	“	10	“	3	“	“	“
29,426	“	4	“	4	“	“	“
11,093	“	4	“	6	“	“	“
4,703	“			8	“	“	“
19,751	“	10	“	10	“	“	“
6,114	“			12	“	“	“
13,074	“	1	“	20	“	“	“

127,887 feet 5 inches, or $24\frac{1167}{5280}$ miles.

The new building supplies in 1887 were 3,669, and from which an annual revenue of \$25,474.50 will be derived.

There were 410 leaks on main pipes, of sizes from 2 to 40 inches, and 275 stop-cocks, of sizes from 2 to 30 inches, inspected and repaired.

There were seventy-two new fire-plugs erected, of which fifty-four were located upon new and eighteen upon old sites, viz:

ON NEW SITES:

N. W. corner Leadenhall and West.

N. W. corner Federal and Caroline.

S. W. corner Payson and Ramsey.

- N. E. corner Payson and Wilkens avenue.
- N. W. corner Townsend and Caroline.
- N. W. corner Townsend and Bond.
- N. W. corner Front and Lombard.
- N. E. corner Front and Lombard.
- N. E. corner Front and Plowman.
- N. E. corner Fort avenue and Covington.
- S. E. corner Preston street and Hargrove alley.
- N. W. corner Calvert and Pratt.
- North side Biddle, between St. Paul and Lovegrove alley.
- N. W. corner Eager and Calvert.
- N. E. corner Chase and Bond.
- S. W. corner Ann and Eager.
- N. W. corner Chew and Chester.
- N. W. corner Chester and McElderry.
- West side of Chester, at alley rear north side Fayette.
- West side of Bond, at alley rear north side Biddle.
- N. W. corner Biddle and Caroline.
- North side Biddle, between Somerset and Central avenue.
- N. W. corner Valley and Biddle.
- N. E. corner Greenmount avenue and Preston street.
- S. E. corner Biddle street and Morton alley.
- N. W. corner Monument street and Park avenue.
- N. W. corner Greenmount avenue and Pinkney place.
- S. W. corner Lanvale and North.
- N. E. corner Townsend street and Morton alley.
- N. W. corner Camden and Light.
- S. W. corner Camden and Light.
- S. E. corner Charles and Perry.
- E. S. Charles, between Conway and Barre.

N. W. corner Hughes and William.
N. W. corner Hughes and Henry.
N. E. corner Covington and Montgomery.
N. W. corner Covington and Cross.
Hull street, between Nicholson and the wharf.
N. W. corner Bond and Oliver.
Philadelphia road, near Harford run.
N. E. corner Howard and Camden.
N. E. corner Howard and Conway.
N. W. corner Howard and Pratt.
N. W. corner Albemarle and Eastern avenue.
S. W. corner President street and Eastern avenue.
S. W. corner President street and Canton avenue.
S. E. corner President street and Aliceanna street.
N. E. corner President street and Lancaster.
N. E. corner Albemarle and Lancaster.
N. E. corner Exeter and Lancaster.
East side Exeter, between Canton avenue and Hammond alley.
Foot of Allison alley.
Corner Smith's wharf and alley south of Pratt street.
S. W. corner Pratt and Allison alley.

ON OLD SITES.

N. W. corner Monument and Graves.
S. W. corner Monument and Beuren.
S. E. corner Ann and Aliceanna.
S. W. corner Madison avenue and St. Mary street.
S. W. corner Chesapeake and Hudson.
South side Cross, near east side of Belt street.
S. W. corner Bolton and Preston.

N. E. corner President and Aliceanna.

West side Paca street, opposite Marion street.

East side Gilmor street, between Harlem and Edmondson avenues.

N. W. corner Greenmount avenue and Biddle street.

N. W. corner Leadenhall and Stockholm.

S. E. corner Leadenhall and West.

N. E. corner Charles and Hill.

N. E. corner Hughes and Johnson.

No. 10 Engine House, Columbia avenue.

N. W. corner Hoffman and Brewer alley.

N. E. corner Exeter and Pratt.

The total number of fire-plugs in the city is one thousand and sixty-two.

There were 14 pumps repaired, 21 removed, and 7 wells filled up.

There were three fountains erected at the following places, viz:

N. E. corner Falls road and Townsend street.

S. E. corner Maryland avenue and Oliver street.

Near S. W. corner Cross and Belt streets.

There are in the city one hundred and three public fountains for the use of man and beast, and twenty-three for mankind only.

The registered consumption of water by meters and indicators was as follows:

GALLONS.

Elevators by meters.....	83,999,044
Elevators by indicators.....	313,757,134
Railroads by meters.....	226,143,598
Miscellaneous by meters.....	377,234,275
Steamboat companies by meters.....	35,639,576
Pork packers and butchers.....	47,845,970
Livery stables.....	15,011,822
Beer breweries.....	172,676,994
Whiskey distilleries.....	27,572,776
Brick yards.....	5,521,736
Coal oil refineries.....	7,038,580
Drove yards.....	9,353,640
Oyster and fruit packers.....	68,113,579
Hotels.....	52,381,188
Planing mills.....	39,472,635
Total.....	<u>1,481,762,547</u>

Being an increase of 151,135,999 gallons over the year 1886.

METERS AND INDICATORS.

The number and sizes of meters and the number of indicators placed in operation are as follows:

Meters..28.....	$\frac{3}{4}$ -inch,
11.....	1 “
4.....	1 $\frac{1}{2}$ “
9.....	2 “
22.....	3 “
—	
74	
Indicators..21.....	
—	
Total..95	

The number and sizes of meters and the number of indicators in use, are:

Meters..	275.....	$\frac{3}{4}$ -inch,
	190.....	1 “
	89.....	$1\frac{1}{2}$ “
	87.....	2 “
	139.....	3 “
	4.....	4 “
	784	
Indicators..	238	
Total..	1,022	

There were seven meters withdrawn, and indicators substituted.

The High-service pumps were worked 6,571 hours, and there were 1,024,993,805 gallons of water pumped into the reservoir, being an increase of 22,919,326 gallons over the year 1886.

The consumption of coal was 1,717 $\frac{500}{2240}$ tons, and 17 $\frac{1}{4}$ cords of wood.

The amount expended in pumping water was \$18,-054.38, or at the rate of 1 $\frac{761}{1000}$ cents per 1,000 gallons.

The fountain in the upper part of Druid Lake was in operation 327 $\frac{1}{2}$ hours.

The water in Lake Roland was below the crest of the dam 72 days; the lowest point it reached was 14 $\frac{1}{4}$ inches on the 11th of September, and there were but 10 days when it was too muddy for use.

Whenever possible there has been a daily waste of water through the bottom gates, and the greatest amount in any one day was 37 millions gallons.

A new bridge over Roland Run, plank and wire fencing at the upper end of the lake, and a new shed in the barn-yard at the keeper's house are the improvements that have been made during the year.

The conduit from Lake Roland has been repeatedly flushed at the Harper waste-weir.

The water in Hampden Reservoir was let out in the month of June and very little sediment was found, though the reservoir had not been emptied for 12 years.

A large portion of the drive around Druid Lake has been put in order, and whenever practicable water has been wasted from the bottom of the lake.

The High-Service Reservoir was emptied to allow the embankments to settle, and the supply to the city was maintained by direct pumping.

The 30-inch main, that supplied Mt. Royal Reservoir with Jones' Falls water, has been converted into a middle-service main, and the reservoir will be supplied in the future entirely from the Gunpowder.

The average daily waste from the bottom of Loch Raven was 50 millions gallons, and the flow over the dam varied in height from 2 to 26 inches.

There were 108 days when the Gunpowder was too muddy for use, and the flow of the stream per day varied from one hundred and forty-four to three hundred and thirty-nine million gallons.

Nearly a mile of the east side of Loch Raven has been graded, sloped and rip-rapped, and a considerable amount of fencing done, enclosing new purchases of adjacent property.

The water in Lake Montebello has been clear and good, and the drive around it is finished, and, with the hedge on both sides, it presents a very creditable appearance.

At Lake Clifton very satisfactory progress has been made, and there is every reason to believe that the graduation is now so far advanced that water can be let into the lake during the present year; the superstructure of the gate-house is also well under way.

The amount expended for graduation and masonry the past year upon Lake Clifton was \$80,923.40.

The tributaries of the Gunpowder and Jones' Falls were daily inspected and but little pollution was found of any kind.

I take pleasure in speaking of the efficiency displayed by the officers and employees of this department in the performance of their various duties.

Respectfully submitted,

ROBERT K. MARTIN,

Chief Engineer.

FROM.	AMOUNTS TURNED OVER TO WATER REGISTRAR.									AMOUNT OF BILLS DELIVERED TO WATER REGISTRAR FOR WORK DONE, ETC.					TOTAL.
	Hay.	Fodder.	Corn husks.	Ice.	Wood.	Cow pasture.	Sand.	Rent.	Use of roller.	Old iron.	Old barrels.	Lead dross.	For service pipes laid in city.	For mains laid in county.	
Lake Roland.....	\$847 03	\$14 36	.....	\$161 49	\$8 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1,031 38
Loch Raven.....	63 27	.....	.....	8 00	.....	.....	.....	96 00	.....	.....	.....	.....	.....	.....	167 27
Lake Montebello... ..	317 50	.....	3 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	321 00
Jones' Falls conduit.....	40 68	.....	.....	.....	.....	10 00	.....	.....	.....	.....	.....	.....	.....	.....	50 68
High Service Reservoir..	19 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19 00
Druid Lake.....	28 00	.....	.....	.....	.....	.....	.....	.....	10 00	.....	.....	.....	.....	.....	38 00
Mount Royal Reservoir..	16 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16 00
Hampden Reservoir.....	72 25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72 25
Lake Clifton.....	.....	.....	.....	.....	.....	.....	245 00	.....	.....	.....	.....	.....	.....	.....	245 00
Distributing main.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	485 22	.....	50 00	.....	.....	535 22
Plumbing.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30,973 92	8,285 17	39,259 09
Pump-house.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2 00	14 75	.....	.....	.....	16 75
	\$1,403 73	\$14 36	\$3 50	\$169 49	\$8 50	\$10 00	\$245 00	\$96 00	\$10 00	\$487 22	\$14 75	\$50 00	\$30,973 92	\$8,285 17	\$41,771 64

SUMMARY OF WORK DONE IN THE DEPARTMENT SHOP
FOR 1887.

Patterns.

30-inch pipe cutting machine.

40 " " " "

Change in 20-inch pipe cutting machine.

20-inch cap.

18 "

12 "

1½ "

12-inch pipe end.

20-inch bell and spigot end for S-bend.

20x10-inch reducer.

20x 8 " "

20x 4 " "

18x10 " "

12x 8 " "

12x 6 " "

10x 8 " "

Wheels and grate for lead furnace.

Goose-neck for fountain.

Air-valve

$\frac{3}{4}$ -inch thimble.

Fire-plug changes.

Drain-pipe for Clifton gate-house.

Roller for Montebello.

Miscellaneous patterns for shop and pump-house.

General repairs to patterns during the year.

The following were also made:

454 $\frac{5}{8}$ -inch cedar plugs.

6 1 " "

5 3 " "

20 4 " "

1 set of cedar posts for drinking fountain.

Pipe derrick for 20-inch pipe.

Machine Shop.

4 20-inch stops.

7 12 " "

27 10 " "

85 6 " "

198 4 " "

81 3 " "

1 3-inch old stop reconstructed.

48 4-inch fire-plugs.

1 5 " "

816 $1\frac{1}{2}$ -inch caps.

504 $\frac{1}{2}$ -inch bushings.

36 3 " ferrule clamps.

84 Brass thimbles.

3 30x3-inch clamps.

3 16x2 " "

3 12x3 " "

18 10x3 " "

6 10x4 " "

6 10x2 " "

6 8x3 " "

6 6x3 " "

6 6x2 " "

Repair work on fountain.

Iron-work for pipe derrick for 20-inch pipe.

Pumps for pumping out plugs.

Repair work for pump-house.

36 2-inch meter spuds.

12 $1\frac{1}{2}$ " " "

24 1 " " "

48 $\frac{3}{4}$ " " "

7 brass meter valves.

48 small plug-caps.

24 large "

18 3-inch meter strainers.

Roller iron work for Montebello.

INVENTORY, 1887.

Distributing main and pipe fittings.....	\$20,121 99
Plumbing	1,011 40
Meters	1,192 57
Plugs	929 19
Tools and fixtures	6,290 00
	\$29,545 15

Size and Number of Feet of Pipe, Stop-Cocks, and Branches Laid in the City.

[illegible]

From Oct. 31, 1872, to Oct. 31, 1873....	.....	4,551	10,677½	8,032½	.....	5,405	.....	2,150	.....	3,400	.....	.....	.....	34,216
From Oct. 31, 1873, to Oct. 31, 1874....	36	4,402	8,169	10,525	.....	10,959	5,795	8,537½	.....	...	.....	.....	.....	48,423½
From Oct. 31, 1874, to Oct. 31, 1875....	.....	3,542	7,544½	8,837½	.....	11,750	...	4,362½	.....	.....	11,160	8,959½	.....	56,156
From Oct. 31, 1875, to Oct. 31, 1876....	.....	1,982½	7,053½	15,383	.....	1,050	.....	3,212½	.....	5,175	202½	7,215½	.....	41,274½
From Oct. 31, 1876, to Oct. 31, 1877....	.....	1,289	17,246½	15,571½	.....	7,402½	.....	75	137½	.....	.....	.....	.....	41,782
By Water Board, 1878	175	1,603	7,567	11,579½	.....	3,000	.....	4,800	.....	837½	425	3,312½	.....	33,299½
" " 1879	.....	1,603	4,490	10,876	.....	3,160	.....	2,038½	.....	.....	2,975	.....	.....	25,142½
" " 1880	.....	1,862	5,057½	7,777½	.....	5,459½	.....	1,398	.....	.....	.....	.....	.....	21,574½
" " 1881	.....	933	9,034½	12,290½	.....	6,421½	1,717	3,169½	.....	.....	.....	.....	.....	33,646½
" " 1882	.....	1,058	8,423½	14,788	.....	4,522½	.....	4,964½	.....	.....	.....	.....	.....	33,750½
" " 1883	.....	1,269½	12,259	18,270½	.....	13,295½	4,624½	5,026	.....	.....	15,817½	2,960½	.....	73,524½
" " 1884	.....	947	15,990½	25,302	.....	11,100	530½	6,665½	.....	.....	.....	.....	.....	60,535
" " 1885	27	651½	16,464½	25,884½	.....	9,520½	2,197½	4,655½	.....	.....	.....	.....	.....	59,401½
" " 1886	140	351	20,815½	27,582½	210	6,624	187½	4,196½	.....	.....	.....	.....	.....	60,108
" " 1887	189	1,083½	16,998½	29,426½	.....	11,093½	4,704	19,751½	6,114	.....	13,074½	.....	.....	127,887½
16,240	101,275½	522,374½	529,821½	72,671	283,139½	30,553	136,416½	18,973½	38,752½	6,580	87,235½	46,421½	1,915,985½	

TABULAR STATEMENT—Continued.

	1½ in.	2 in.	3 in.	4 in.	4½ in.	6 in.	8 in.	10 in.	12 in.	16 in.	18 in.	20 in.	30 in.	Stops.
Stop-cocks by Water Company.....		12	61	94	.....	55	9	8	8	9	4	8	2	270
“ “ Commissioners.		9	8	8	.....	2	.....	.....	.....	.....	.....	2	.....	29
By Water Board, 1858.....		17	23	14	.....	3	1	.....	1	16	.....	1	.....	76
“ “ 1859.....		15	30	54	.....	16	.....	7	.....	.....	.....	.....	.....	122
“ “ 1860.....			18	55	.....	36	.....	9	.....	.....	.....	4	1	123
“ “ 1861.....			7	24	.....	8	.....	3	.....	.....	.....	.....	5	54
“ “ 1862.....		21	19	31	.....	19	.....	1	.....	1	.....	4	.....	96
“ “ 1863.....		8	20	28	.....	2	.....	2	.....	.....	.....	1	.....	61
“ “ 1864.....		12	18	15	.....	4	.....	5	.....	.....	.....	1	.....	55
“ “ 1865.....		24	13	6	.....	2	.....	.....	.....	.....	.....	.....	.....	45
“ “ 1866.....		22	24	20	.....	4	.....	.....	.....	.....	.....	.....	.....	70
“ “ 1867.....		46	22	5	.....	3	.....	3	.....	.....	.....	.....	.....	81
“ “ 1868.....		7	24	19	.....	3	.....	.....	.....	.....	.....	.....	.....	53
“ “ 1869.....			7	18	.....	3	.....	.....	.....	.....	.....	.....	.....	28
“ “ 1870.....			4	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	11
January 1 to October 31, 1871.....		5	11	25	.....	5	.....	.....	.....	.....	.....	.....	.....	46
October 31, 1871, to October 31, 1872.....		16	20	23	.....	3	.....	.....	.....	.....	.....	.....	.....	56
“ “ 1872, 1873.....		7	14	25	.....	12	.....	2	.....	2	.....	.....	.....	62
“ “ 1873, 1874.....		4	14	52	.....	9	6	6	.....	.....	.....	.....	.....	91
“ “ 1874, 1875.....		3	5	31	.....	16	.....	6	.....	1	.....	6	.....	64
“ “ 1875, 1876.....		1	25	66	.....	52	2	.....	.....	1	.....	1	.....	150
“ “ 1876, 1877.....		5	69	50	.....	13	.....	2	.....	.....	.....	.....	.....	139

By Water Board, 1878.	7	29	23	2	6	4	2	1	73
" " 1879.	4	13	37	6	2	..	..	..	64
" " 1880.	3	9	24	14	2	..	..	2	54
" " 1881.	4	26	41	6	2	..	..	..	81
" " 1882.	..	..	36	19	5	..	..	..	92
" " 1883.	5	27	91	67	10	..	..	4	235
" " 1884.	4	50	91	31	5	3	..	1	224
" " 1885.	9	59	119	31	1	..	..	..	164
" " 1886.	6	38	85	23	6	..	..	..	212
" " 1887.	6	68	103	21	12	..	..	..	480
" " 1887.	42	94	201	97	27	6	..	5	3,461
.....	325	871	1,429	552	131	37	4	39	16

TABULAR STATEMENT—Concluded.

	1½ inch.	2 inch.	3 inch.	4 inch.	4½ inch.	6 inch.	8 inch.	10 inch.	12 inch.	16 inch.	18 inch.	20 inch.	30 inch.	Branches.
By Water Board, 1858	...	3	78	98	...	33	2	...	...	1	...	...	...	215
" " 1859	...	...	53	134	...	75	...	32	2	...	...	...	...	296
" " 1860	...	...	68	108	...	149	...	29	...	...	...	52	2	408
" " 1861	...	...	26	50	...	33	...	19	...	...	...	6	34	168
" " 1862	...	...	25	30	...	4	...	1	...	...	...	16	...	81
" " 1863	...	5	29	19	...	9	...	7	...	2	1	5	...	75
" " 1864	...	3	40	21	...	9	1	47	...	5	4	...	...	137
" " 1865	...	20	47	20	...	15	...	...	...	...	...	...	...	102
" " 1866	...	...	30	24	...	16	...	...	...	...	...	...	...	73
" " 1867	...	1	29	26	...	7	...	21	...	...	...	...	...	130
" " 1868	...	1	38	43	...	12	...	...	...	...	...	...	...	100
" " 1869	...	5	54	32	...	6	...	2	...	...	...	...	...	99
" " 1870	...	9	27	39	...	1	...	...	...	...	...	...	...	76
January 1 to October 31, 1871	...	6	22	29	...	32	...	...	...	...	...	...	...	89
October 31, 1871, to October 31, 1872	...	3	35	39	...	10	...	...	...	...	...	...	...	87
" " 1872	...	...	...	...	...	...	...	...	...	...	...	...	...	78
" " 1873	...	3	26	23	...	14	...	7	...	5	...	...	...	143
" " 1874	...	4	17	53	...	16	22	30	...	1	...	...	...	101
" " 1875	...	5	14	26	...	5	...	13	...	1	...	29	8	171
" " 1876	...	4	21	90	...	12	...	14	...	21	...	...	9	119
" " 1877	...	2	45	45	...	23	1	3	...	...	...	...	...	...

By Water Board, 1878.....	....	4	20	36	....	8	....	....	9	....	3	4	84	
“ “ 1879 .....	....	2	14	41	....	6	....	5	....	....	....	....	68	
“ “ 1880 .....	....	....	9	35	....	17	....	11	....	....	5	....	77	
“ “ 1881 .....	....	3	20	54	....	11	....	7	....	....	....	....	100	
“ “ 1882 .....	....	1	24	74	....	45	....	21	....	....	2	....	167	
“ “ 1883 .....	....	3	30	104	....	86	13	15	....	2	54	10	317	
“ “ 1884 .....	....	3	40	123	....	53	1	14	....	....	....	....	234	
“ “ 1885 .....	....	3	44	98	....	58	7	17	....	....	....	1	228	
“ “ 1886 .....	....	1	52	133	....	54	3	46	....	....	....	....	292	
“ “ 1887	2	5	64	177	3	76	7	74	20	....	57	1	486	
	30	115	1058	1,824	6	895	62	435	22	47	5	233	69	4,801

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1, 1887, to December 31, 1887.

STREETS IN WHICH PIPES ARE LAID.	BETWEEN WHAT STREETS.	SIZE IN INCHES.	LENGTH IN FEET.	COST.
Rear Barkley.....	First and Second.....	3	112	\$ 90 00
Second.....	Barkley and York road.....	4	60	
Union Dock.....	South of Eastern avenue.....	3	148	
Eastern avenue.....	Broadway and Ann.....	4	10	81 57
Rear Bethel.....	McElerry and Monument.....	3	49½	
Centre.....	Holliday and North.....	4	24½	191 96
Rear Norris alley.....	Lanvale and Townsend.....	1½	2	
Lovegrove alley.....	Fifth and Sixth.....	3	209	97 73
South.....	Guilford and Pratt.....	1½	5	
Parrish alley.....	Townsend and Mosher.....	3	160	76 78
Rear St. Paul.....	Townsend and Boundary ave.....	4	49½	23 03
Rear of Oak.....	Boundary avenue and First.....	4	291½	148 28
		3	74	44 33
		3	100	67 60
		4	185	99 78
		4	61¾	43 69

Rear of Washington.....	Jefferson and McEldry.....	3	185	60	64
Rear of Townsend.....	Calvert and North.....	4	98 $\frac{2}{3}$	42	71
Baltimore.....	and Castle.....	3	3		
Rear Lombard.....	Washington and Castle.....	3	49 $\frac{1}{2}$	42	18
Payson.....	Pratt and Christian.....	6	986 $\frac{2}{3}$		
McHenry.....	Payson and Goldsmith.....				
Wilhelm.....	Payson and Goldsmith.....	4	308 $\frac{1}{2}$	968	42
Rear Stricker.....	Franklin and Cairo.....	3	86 $\frac{1}{2}$	35	46
Rear Light.....	Gittings and Ostend.....	3	98 $\frac{2}{3}$	43	21
Boston.....	E. of Harrison creek.....	4	50	44	41
Gittings.....	Light and Patapasco.....	4	111		
Patapasco.....	Gittings and Clement.....	4	174 $\frac{1}{2}$		
Clement.....	Patapasco and Charles.....	4	111	194	51
Bloome.....	Madison ave. and Eutaw place.....	4	86 $\frac{1}{2}$	52	37
Leadenhall.....	West and Stockholm.....	10	444		
		4	49 $\frac{1}{2}$	815	88
Caroline.....	Federal and North avenue.....	6	746 $\frac{2}{3}$	438	77
Caroline.....	Oliver and Hoffman.....	6	385 $\frac{2}{3}$	285	79
Francis.....	Clifton and Retreat.....	4	567		
Francis.....	Clifton and Fulton avenue.....	4	246 $\frac{1}{2}$	409	38
Etting.....	Laurens and Wilson.....	4	12 $\frac{1}{2}$		
		3	90	54	55
President.....	Stiles and Fawn.....	1 $\frac{1}{2}$	21	62	72
		3	135 $\frac{2}{3}$	23	52
Rear Etting.....	Laurens and Robert.....	3	61 $\frac{2}{3}$		

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1, 1887, to December 31, 1887.

STREETS IN WHICH PIPES ARE LAID.	BETWEEN WHAT STREETS.	SIZE IN INCHES.	LENGTH IN FEET.	COST.
Raborg.....	Arch and Pine.....	3	3 }	
Rear McKim.....		1½	7 }	\$ 34 07
Rear McKim.....	Preston and Biddle.....	4	111	53 03
Ensor.....	63' N. of Preston.....	3	21	8 61
Charles.....	Eighth and Ninth.....			
Ninth.....	Charles and St. Paul.....	4	495 }	
Front.....	and Cowman.....	2	2 }	250 16
		3	10 }	
		4	37 }	
		6	24½ }	
		10	814 }	1,683 70
Mosher.....	John and Rutter alley.....	3	37	43 10
Chesapeake.....	Hudson and Lancaster.....	6	386½	
Lancaster.....	Chesapeake and Grove.....	6	123½	362 01
Hoffman.....	Luzerne and Loney's lane.....	4	98½	59 20
Vincent alley.....	Ramsey and McHenry.....	4	98½	43 87

Rear Chase	Harford avenue and Ensor	3	172 $\frac{3}{4}$	102 01
Ensor	Chase and Biddle	4	123 $\frac{3}{4}$	22 77
Rear Eden	Preston and Hoffman	3	37	37 26
York	William and Johnson	3	94	52 21
Morris alley	Laurens and Robert	4	100	133 52
Calvert	Preston and Hoffman	4	345 $\frac{1}{2}$	185 46
Howard	Stockholm and West	6	365 $\frac{1}{2}$	22 28
Vincent alley	Baker and Pressbury	4	37	104 21
Rear Townsend	Carey and Stockton alley	4	185 $\frac{1}{2}$	84 78
Rear Mulberry	Vincent alley and Mount	3	123 $\frac{3}{4}$	137 92
Vincent alley	Mulberry and Saratoga	4	74	101 77
Rear Hunter alley	Preston and Hoffman	3	185 $\frac{1}{2}$	40 80
Hunter alley	Preston and Hoffman	4	123 $\frac{3}{4}$	156 23
Rear North	First and Second	4	172 $\frac{3}{4}$	32 70
Elliott	Eastern avenue and Robinson	3	123 $\frac{3}{4}$	13 58
Rear Caroline	Federal and Oliver	4	185 $\frac{1}{2}$	97 91
Federal	Bond and Caroline	4	123 $\frac{1}{2}$	12 61
Rear Harford avenue	Boundary avenue and Townsend	3	74	9 18
Vincent alley	Baker and Pressbury	3	24 $\frac{3}{4}$	254 29
Ostend	Hanover and Charles	6	123 $\frac{3}{4}$	
Rear Hull	Clement and Fort avenue	2	21	
Necessity alley	High and Exeter	2	21	
Rear E. S. Bond	Townsend and Lanvale	4	234 $\frac{1}{2}$	
Townsend	Bond and Broadway	4	123 $\frac{3}{4}$	
Rear W. S. Bond	Townsend and Lanvale	4	160	

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1, 1887, to December 31, 1887.

STREETS IN WHICH PIPES ARE LAID.	BETWEEN WHAT STREETS.	SIZE IN INCHES.	LENGTH IN FEET.	COST.
Clinton	Third and Fourth avenue.....	6	114	\$ 72 43
Rear Mt. Royal avenue	Reservoir and King street.....	4	235 $\frac{1}{2}$	
Reservoir	Mt. Royal ave. and Park ave....	4	333	238 17
Rear Whatcoat	Tennant and Winchester.....	3	135 $\frac{3}{4}$	
Whatcoat	Tennant and Winchester.....	4	111	102 75
Rear Calvert	Townsend and Boundary avenue..	4	209 $\frac{3}{4}$	95 97
Rear Orleans	Duncan alley and Choptank.....	3	111	35 92
Chew	Washington and Wolfe.....	6	74	81 51
Boundary avenue	Charles and St. Paul.....	4	148	71 84
Rear Mosher	Carey and Carrollton avenue....	3	283 $\frac{3}{4}$	94 09
Preston	Washington and Belair avenue..	4	98 $\frac{3}{4}$	53 76
Rear Baltimore	Chester and Choptank.....	3	111	53 47
Monroe	Lorman and Patterson avenue..	4	111	65 88
Gold	Woodyear and Calhoun.....	3	98 $\frac{3}{4}$	39 54
Alley N. of Franklin	E. of Mitchell alley.....	1 $\frac{1}{2}$	8	
		4	255	146 94

Stockton alley.....	Lombard and Pratt.....	2	14	7 42
Lombard	E. of Payson.....	2	13	8 62
Rear Pulaski.....	Ramsay and Christian.....	4	172 $\frac{2}{3}$	}
Rear Christian	Payson and Pulaski.....	4	111	
Woodyear	Gold and Baker.....	4	111	
Baker	Carey and Woodyear.....	4	111	}
Rear Marshall	Patapsco and Ropewalk alley.....	3	123 $\frac{1}{3}$	
Elizabeth lane.....	Charles and Light.....	3	222	
Lanvale	Maryland ave. and Morton alley.....	3	74	}
Rear Stricker.....	Mulberry and Franklin.....	3	74	
Rear John	Mosher and McMechin.....	3	74	
Pitcheer	Penna. ave. and Argyle ave.....	4	90	}
Smallwood.....	McHenry and Mary Ann.....	4	370	
Mary Ann.....	Smallwood and Bantolon.....	4	209 $\frac{2}{3}$	
Rear Columbia avenue.....	Scott and Barre.....	4	106	}
Rear Fulton avenue.....	Lanvale and Townsend.....	3	60	
Clinton	Lancaster and Hudson.....	3	148	
Hollins	Payson and Pulaski.....	4	308 $\frac{1}{3}$	}
Rear Caroline.....	Townsend and North avenue.....	4	308 $\frac{1}{3}$	
Rear North avenue.....	Caroline and Dallas.....	4	98 $\frac{2}{3}$	
Burke	McElderry and Jefferson.....	4	110	}
Port alley.....	Lancaster and Aliceanna.....	4	111	
Rear Hoffman	Chester and Choptank.....	3	234 $\frac{1}{3}$	
Keyser	Choptank and Chester.....	3	259	}
Choptank	Oliver and Keyser.....	4	197 $\frac{1}{3}$	
		4		236 50

STREETS IN WHICH PIPES ARE LAID.	BETWEEN WHAT STREETS.	SIZE IN INCHES.	LENGTH IN FEET.	COST.
Rear O'Donnell.....	Curley and Patuxent.....	3	86 $\frac{3}{4}$	\$ 41 86
Port alley.....	McElderry and Monument.....	1 $\frac{1}{2}$	7	
Canton	Hudson and Dillon.....	3	135 $\frac{1}{2}$	48 40
Rear Jefferson.....	Duncan alley and Choptank.....	3	37	34 38
North	Biddle and Preston.....	3	86 $\frac{1}{2}$	30 56
Hunter alley.....	Huntingdon avenue and Fifth..	4	320 $\frac{3}{4}$	147 66
Rear Calvert.....	Fourth and Fifth.....	4	314 $\frac{1}{2}$	159 34
Rear Whatcoat.....	Winchester and Tennant.....	4	90	51 41
Rear Calvert.....	German and Baltimore.....	4	271 $\frac{1}{2}$	97 54
Waesche.....	Fremont and Myrtle avenue.....	1 $\frac{1}{2}$	2	
Saratoga	Gilmore and Fulton avenue.....	3	58	28 56
Rear Fayette.....	Pulaski and Smallwood.....	3	222	90 62
Pulaski	Fayette and Lexington.....	4	209 $\frac{3}{4}$	203 43
Payson	Lorman alley and Pratt.....	4	98 $\frac{3}{4}$ }	
		4	296 }	135 74
		4	111 }	40 27

Rear Townsend.....	4	61 $\frac{3}{4}$	31 01
Rear Forrest place.....	4	49 $\frac{1}{4}$	26 68
Rear Dolphin.....	3	98 $\frac{3}{4}$	35 38
Rear Fort avenue.....	1 $\frac{1}{2}$	5	
	4	175	
Rear Decatur.....	4	129	109 70
Rear Charles.....	1 $\frac{1}{2}$	7	
	3	74	33 28
Rear Patapsco.....	3	24 $\frac{3}{4}$	17 79
Rear William.....	3	37	16 68
Cross.....	4	74	37 68
Pear alley.....	3	61 $\frac{3}{4}$	24 95
Rutter alley.....	4	115	54 42
Rear Division.....	3	75	19 09
Rear Washington.....	3	234 $\frac{1}{4}$	100 22
Orleans.....	4	172 $\frac{3}{4}$	
Rear Orleans.....	3	37	111 94
Jefferson.....	6	163	106 85
Rear Burke.....	3	111	39 35
Ensor.....	4	160	100 28
Rear Barclay.....	3	24 $\frac{3}{4}$	
Rear Wilkers avenue.....	6	809 $\frac{1}{4}$	471 69
Oak.....			
Rear Huntingdon avenue.....			
Hudson alley.....	4	1,238 $\frac{1}{4}$	597 07

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1, 1887, to December 31, 1887.

STREETS IN WHICH PIPES ARE LAID.	BETWEEN WHAT STREETS.	SIZE IN INCHES.		LENGTH IN FEET.	COST.
Rear Hoffman.....	Ensor and Holbrook.....	3		172 $\frac{3}{8}$	\$114 99
Ensor.....	Hoffman and Oliver.....	3		111	
Rear Myrtle avenue.....	Harlem avenue and Dolphin.....				
Rear Dolphin.....	Myrtle avenue and Harlem ave.	4		123 $\frac{1}{8}$	288 11
Myrtle avenue.....	Hoffman and Dolphin.....	4		456 $\frac{1}{8}$	
Lemon alley.....	Payson and Brice alley.....	2		91	55 05
Brice alley.....	Lombard and Pratt.....	3		37	
St. Paul.....	Fayette and Lexington.....	1 $\frac{1}{2}$		100	23 75
Rear Luzerne.....	Hoffman and Preston.....	4		188	93 33
McHenry.....	Goldsmith and Monroe.....	4		24 $\frac{3}{8}$	16 71
Kirby's lane.....	Lauvale and Townsend.....	4		74	36 46
Hampden avenue.....	Fourth and Fifth.....	4		288 $\frac{1}{2}$	197 54
Rear Choptank.....	Orleans and Jefferson.....	3		123 $\frac{3}{8}$	50 84
Rear Caroline.....	Federal and Oliver.....	4		165	68 84
McHenry.....	Payson and Pulaski.....	4		271 $\frac{1}{8}$	157 43
Rear Broadway.....	Hoffman and St. Joseph.....	3		98 $\frac{3}{8}$	41 75

Wehage	Covington and Henry.....	4	167 $\frac{1}{2}$	79 73
Proctor	Biddle and Chase.....	3	271 $\frac{1}{2}$	86 84
Rear Heath.....	Clarkson and Race.....	3	74	40 91
Rear Vine	Fulton avenue and Monroe.....	3	24 $\frac{3}{8}$	14 83
Rear Whatcoat.....	Townsend and Mosher.....	4	234 $\frac{1}{2}$	88 51
Rear Brunt.....	Roberts and Presstman.....	3	172 $\frac{3}{8}$	57 47
Rear McElderry.....	Castle and Washington.....	3	123 $\frac{1}{2}$	115 72
Washington.....	McElderry and Monument.....	6	98 $\frac{3}{8}$	
Hulsemans court	Eastern and Canton avenue.....	2	182	62 48
Rear McElderry.....	Castle and Washington.....	3	197 $\frac{1}{2}$	59 61
Scott	Ramsey and McHenry.....	6	154	117 55
Clinton	O'Donnell and Hudson.....	4	4	166 04
Rear Monument.....	Castle and Washington.....	6	629	
Rear Monument.....	Madison and Monument.....	3	98 $\frac{3}{8}$	62 55
Castle	Washington and Wolfe.....	3	74	
Rear Preston.....	Preston and Biddle.....	3	123 $\frac{1}{2}$	169 26
Rear Washington.....	Launvale and Townsend.....	4	197 $\frac{1}{2}$	
Rear Caroline.....	Laurens and Wilson.....	4	234 $\frac{1}{2}$	183 62
Boulden alley.....	Fulton avenue and Richland.....	3	37	18 26
Rear Pennsylvania avenue.....	Mary and Pennsylvania avenue.....	3	137	194 18
Rear Fulton avenue.....	Fulton avenue and Richland.....	3	271 $\frac{1}{2}$	
Rear Mary.....	Harford avenue and Nicholson.....	3	37	92 00
Park	Bloome and Preston.....	3	191 $\frac{1}{2}$	70 48
Rear Eutaw place.....	Ropewalk lane and Gittings.....	4	135 $\frac{3}{8}$	45 00
Rear Patapsco.....		3	123 $\frac{1}{2}$	

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1, 1887, to December 31, 1887.

STREETS IN WHICH PIPES ARE LAID.	BETWEEN WHAT STREETS.	SIZE IN INCHES.	LENGTH IN FEET.	COST.
James alley.....	Cross and Hamburg.....	3	61 $\frac{3}{8}$	\$ 40 04
O'Donnell	Clinton and Second.....	4	597 $\frac{3}{8}$	249 89
Clinton	Aliceanna and Hudson.....	4	740	304 49
Rear Ostend	William and Light.....	3	185	57 64
Cannon.....	Eastern and Canton avenue.....	4	382 $\frac{1}{8}$	172 52
Rear Fulton avenue.....	Baltimore and Fayette.....	3	271 $\frac{1}{8}$	109 42
Warren avenue.....	E. of Johnson.....	4	31	19 29
Rear Lexington	Smallwood and Pulaski.....	4	370	155 04
Pratt.....	Calvert and Franklin lane	3	12 $\frac{1}{8}$	
		4	12 $\frac{1}{8}$	
		6	222	
St. Paul	Biddle and Preston.....	6	481	201 52
Rear Harlem avenue.....	Dolphin and Brune	3	123 $\frac{1}{8}$	289 34
Rear Gilmor.....	Franklin and Mulberry.....	3	111	45 31
Rear Presbury	Mount and Vincent alley.....	3	172 $\frac{3}{8}$	42 86
				59 37

Wilkins	4	175	145	52
Lombard	4	100	15	95
Rear Gilmore	3	37	37	35
Rear Mount	3	111	128	85
Rear Hanover	3	222	890	54
Rear Barney	3	111	93	37
Calvert	4	42 $\frac{2}{3}$	133	42
Eager	6	1,309	95	46
Rear Johnson	4	234 $\frac{1}{3}$	73	01
Division	3	8	301	31
Bruce alley	4	222	48	28
Laurens	4	191	80	62
Cairo and Franklin	2	5	96	67
Linden ave. and Jordan alley	4	123 $\frac{1}{3}$	84	05
Third and Fourth	4	140	58	06
Barclay and North	4	195	100	69
Barclay and North	4	105		
Barclay and North	4	75		
Marriott and Nicholson	1 $\frac{1}{2}$	7		
Cooksie and Hull	3	111		
Gittings and Laloube	3	111		
Pulaski and Smallwood	3	259 $\frac{2}{3}$		
Fifth and Huntington ave.	3	326		
Preston and Chase	4	111		
Chester	4	237 $\frac{1}{3}$		

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1, 1887, to December 31, 1887.

STREETS IN WHICH PIPES ARE LAID.	BETWEEN WHAT STREETS.	SIZE IN INCHES.	LENGTH IN FEET.	COST.
Brune alley.....	Lanvale and Townsend	3	86 $\frac{1}{2}$	\$ 33 59
Rear Gilmore.....	Mosher and Townsend	3	419 $\frac{3}{4}$	
Mosher	Vincent alley and Gilmore.....	6	6	
		4	105	
Vincent alley	Mosher and Townsend	3	175	244 33
Rear Cole.....	Mount and Gilmore.....	3	98 $\frac{2}{3}$	
Rear Gilmore	Ramsey and Cole.....	3	123 $\frac{1}{4}$	80 88
Rear Adams	Chatsworth and Fremont.....	4	98 $\frac{2}{3}$	38 38
Rear Dillon	Canton and Hare.....	3	111	34 59
Curley.....	Lancaster and Hudson	4	49 $\frac{1}{2}$	27 94
Rear O'Donnell.....	Hare and Potomac.....	3	148	57 15
Rear Division	Roberts and Presstman.....	3	148	54 82
Rear Barclay.....	Aisquith and Hope	4	222	
Rear Aisquith	North ave. and Townsend	4	283 $\frac{3}{4}$	
Rear Townsend	Aisquith and Hope	4	61 $\frac{3}{4}$	
Hope.....	North ave. and Townsend	4	98 $\frac{2}{3}$	277 43

Rear Franklin.....	Gilmore and Parrish alley.....	3	210 $\frac{3}{4}$ }	119 98
Parrish alley.....	Franklin and Mulberry.....	4	160 $\frac{1}{4}$ }	109 51
Rear Calvin Place.....	McKim and Greenmount ave.....	4	296	38 62
Bruce alley.....	Fayette and Lexington.....	4	86	
		4	24 $\frac{3}{4}$ }	
Biddle.....	Greenmount ave. and Forrest Pl.....	4	185 }	153 54
Rear Patterson Park ave.....	Baltimore and Hampstead.....	4	61 $\frac{3}{4}$ }	33 59
Rear Hanover.....	Hughes and Montgomery.....	2	77	30 51
Rear Dolphin.....	Adams and Chatsworth.....	4	185 }	
		3	160 $\frac{1}{4}$ }	149 36
Rear Schroeder.....	Adams and Thompson.....	3	37	19 58
Harlem ave.....	Calverton and Bloomingdale road.....	4	135 }	
		3	3	85 66
Rear Calvert.....	First and Second.....	3	235	108 17
Rear Laurens.....	Division and Presstman.....	3	235	96 87
Gold.....	Calhoun and Carey.....	3	70 }	
Rear Calhoun.....	Gold and Baker.....	4	111 }	79 76
Rear Charles.....	Lanvale and Townsend.....	4	135 $\frac{3}{4}$ }	86 02
Rear McHenry.....	Pulaski and Smallwood.....	4	200 }	
Wilhelm.....	Pulaski and McHenry.....	4	80 }	120 14
Rear Calvert.....	First and Second.....	3	240	123 00
Rear Parrish alley.....	Tennant and Mosher.....	4	222	89 35
Rear Barclay.....	Federal and Oliver.....	3	160 $\frac{1}{4}$ }	61 50
Lexington.....	Howard and Eutaw.....	10	74	91 92

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1, 1887, to December 31, 1887.

STREETS IN WHICH PIPES ARE LAID.	BETWEEN WHAT STREETS.	SIZE IN INCHES.	LENGTH IN FEET.	COST.
Camden	Light and Hanover	10	740 }	
North of Camden	Light and Charles	6	147½ }	\$1,432 73
Charles	Conway and Barre	4	12½ }	
		3	283⅔ }	
		8	801⅔ }	1,157 46
Rear Baltimore	Fulton and Monroe	3	259 }	87 42
Mt. Royal ave.	Mosher and Townsend	4	394⅔ }	161 72
Rear Preston	North street and the falls	1½	3 }	
		2	119 }	48 30
Rear Biddle	Chester and Choptank	4	321 }	196 76
Rear John	Mosher and Townsend	3	246⅔ }	81 34
Rear Charles	Preston and Biddle	3	123½ }	38 93
Castle	Chase and Eager	3	37 }	15 32
Kirby's lane	Lanvale and Harlem ave.	4	117 }	38 80
Whatcoat	Winchester and Tennant	3	12½ }	
		4	30⅔ }	22 71

Rear Bond.....	Hoffman and Oliver.....	3	319	}	
Oliver.....	Bond and Broadway.....	4	111	}	165 08
Rear Stockton alley.....	Townsend and Mosher.....	3	123 $\frac{1}{2}$	}	
Townsend.....	Stockton alley and Carey.....	4	245 $\frac{3}{8}$	}	130 20
Harford avenue.....	Biddle and Preston.....	4	120	}	83 27
Rear Morton alley.....	100' S. of Biddle.....	2	226	}	
		3	7	}	18 22
Whatcoat.....	Mosher and Tennant.....	4	185	}	77 50
Rear Andre.....	Clement and Fort avenue.....	3	407	}	141 93
Rear William.....	Gittings and Clement.....	1 $\frac{1}{2}$	3	}	
		3	74	}	33 68
Hull.....	North of Cox.....	4	139 $\frac{3}{8}$	}	108 99
Fayette.....	Gist and Loney's lane.....	3	25	}	
		4	137 $\frac{1}{2}$	}	
		6	3,293	}	2,424 15
Rear Fulton avenue.....	Harlem and Edmondson avenue.....	3	296	}	
Harlem avenue.....	Kirby's lane and Fulton avenue.....	4	123 $\frac{1}{2}$	}	154 54
Lombard.....	Norris alley and Stricker.....	4	123 $\frac{1}{2}$	}	45 78
Clinton.....	Hudson and Lancaster.....	4	75	}	61 15
Canton avenue.....	Second and Third.....	4	160 $\frac{3}{8}$	}	87 85
Second.....	O'Donnell and Dillon.....	4	108	}	70 81
Rear Burke.....	North of Hudson.....	4	320 $\frac{3}{8}$	}	166 67
Goodman alley.....	Clement and Ostend.....	4	370	}	155 30
Wilmer alley.....	Mosher and Smith.....	1 $\frac{1}{2}$	5	}	
		2	154	}	69 05

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1, 1887, to December 31, 1887.

STREETS IN WHICH PIPES ARE LAID.	BETWEEN WHAT STREETS.	SIZE IN INCHES.	LENGTH IN FEET.	COST.
Rear Wilson	Etting and Druid Hill avenue....	3	259	\$ 99 02
Rear Fifth	Hampden and Mt. Vernon ave....	4	401 $\frac{3}{8}$	226 23
Wolfe	Preston and Hoffman	3	382	124 06
Rear Gay	Federal and Oliver	3	123 $\frac{1}{8}$	50 14
First	Aliceanna and Lancaster	4	123 $\frac{1}{8}$	83 73
Rear Light	Wells and Barney	4	24 $\frac{3}{8}$	} 99 68
		3	213	
Kirby's lane	Lanvale and Harlem avenue	4	160 $\frac{3}{8}$	89 75
First	First and Second	4	154	95 13
Bartlett	Lemon alley and Pratt	1 $\frac{1}{2}$	7	} 41 51
		2	70	
Boulden alley	Preston and Dolphin	3	407	117 54
Rear Johnson	Grindall and Cross	2	70	20 89
Rear Jefferson	Chapel and Washington	2	60	26 97
Rear Central avenue	Chase and Biddle	3	123 $\frac{1}{8}$	} 95 50
Rear Chase	Central avenue and Eden	3	2	

Rear Preston.....				59 63
Rear Hudson..				69 48
First avenue.....				203 55
Rear Hudson.....				163 81
Rear Burke.....				142 60
Rear Lancaster.....				151 58
Rear Luzerne.....				
Oak.....				
Rear Sixth.....				
Bank.....				
Exeter.....				
Eastern avenue.....				
President.....				
Exeter.....				
President.....				
Albemarle.....				
Exeter.....				
Central avenue and Harford ave.	2	160		
First and Clinton.....	3	158		
First and Clinton.....	4	308		
Cannon and Port alley.....	4	111		
Hudson and Lancaster.....	4	259		
Luzerne and Rose.....	4	118 $\frac{1}{2}$		
Lancaster and Hudson.....	3	111		
Ware and Fifth street.....	4	111		
Jefferson place and Oak.....	4	111		
Central avenue and Exeter.....				
Bank and Eastern avenue.....	10	2,209 $\frac{3}{8}$		
Exeter and President.....				
Eastern avenue and Aliceanna.....				
Eastern and Canton avenue.....	6	363		
Aliceanna and Lancaster.....				
Aliceanna and Lancaster.....				
Aliceanna and Lancaster.....				
Total.....		62,210 $\frac{3}{8}$		\$34,752 14

ENGINEER & SUPERINTENDENT'S REPORT

COUNTY DIVISION.



REPORT.

OFFICE OF THE
ENGINEER AND SUPERINTENDENT COUNTY DIVISION,

LAKE MONTEBELLO, JANUARY 1, 1888.

R. K. MARTIN, ESQ.,

Chief Engineer Water Department:

SIR:—I herewith respectfully submit my report for the year ending December 31, 1887.

JONES' FALLS SUPPLY.

The quantity of water in Lake Roland was less than in 1886; it fell below the crest of the dam from June 12th to October 31st, though replenished occasionally by rains; and on September 11th, it was $14\frac{1}{4}$ inches below it, the lowest point reached.

For ten days during the year, this supply was too muddy for use, and the greatest quantity wasted per day was 37,000,000 gallons, in the month of February.

The improvements at Lake Roland were a wooden bridge constructed over Roland run; 376 panels of fencing around the city property, of which 216 panels were wire, and a shed built in the barn yard, at the keeper's house. The usual quantities of hay, corn and

oats were raised, some of which have been sold and the proceeds returned to the Water Registrar. The Harper waste weir and conduit is in excellent condition, and was flushed at different times during the year.

HAMPDEN RESERVOIR

Was emptied of water on June 9th; only a small quantity of sediment was found; it was refilled with water June 13th. A large number of evergreens have been planted here from the nursery at Loch Raven. The pipe connections between this reservoir and Druid Lake are in good order.

DRUID LAKE.

A large quantity of water was wasted from the bottom of this lake during the year, for the purpose of keeping its storage supply pure and good. The average daily supply from this lake was 14,388,000 gallons. The drive around it is in good order, having had 2,260 cart loads of gravel put on it during the year.

HIGH SERVICE RESERVOIR.

This reservoir was also emptied of water during the year, and remained so for a few days, in order to allow its banks to become more compact. There were 1,024,993,805 gallons of water pumped into it during the year.

LOCH RAVEN.

There were 108 days during the year when the water was too muddy for use; the flowage over the dam varied

in depth from two to twenty-six inches; the average daily waste from the bottom of the lake was 50,000,000 gallons, and the flow of the Gunpowder river varied from 339,000,000 to 144,000,000 gallons per day. The road on the west side of this lake is completed, the hedge planted, and evergreens distributed along the drive; there is also about one mile of the road on the east side, ready for the planting of a hedge the coming spring, and there were 745 panels of post and rail fence built around the city property here. The main tunnel continues to work satisfactorily.

LAKE MONTEBELLO.

The water in this lake has been pure and good, a large quantity having been occasionally wasted from the bottom; the daily average supply to the city was 19,400,000 gallons, and the combined average consumption per day, from both supplies, was nearly 34,000,000 gallons.

CLIFTON GATE HOUSE.

The tunnel connecting Lake Montebello with this place is in thorough working order, as is also the 40-inch pipe lines to the city.

MOUNT ROYAL RESERVOIR.

A change was made in the stops here on October 20, relieving this reservoir of a portion of its low service work, the city to draw directly from the Druid Lake elevation. The reservoir continues to work satisfactorily, receiving its supply direct from the Gunpowder.

It again gives me pleasure to speak of the thorough and efficient manner in which the officers and employees of this division have performed all their official duties during the past year.

Respectfully submitted,

WM. L. KENLY,

Engineer and Superintendent County Division,

Baltimore City Water Works.

STATEMENTS,
ENGINEER AND SUPERINTENDENT'S REPORT,
COUNTY DIVISION.

BALTIMORE CITY WATER WORKS.

TABLE OF RAIN-FALL IN INCHES.

1887.	JONES' FALLS SUPPLY.			GUNPOWDER SUPPLY.		
	Lake Roland.	Hampden Reservoir.	Druid Lake.	Mount Royal Reservoir.	Loch Raven.	Lake Montebello.
January	2.50	2.46	2.48	3.00	3.55	3.29
February	4.20	4.42	4.28	4.30	4.57	4.60
March	3.20	3.93	3.60	3.65	3.61	3.87
April	2.20	3.14	2.90	3.00	2.59	2.56
May	3.50	3.17	3.03	3.00	2.87	3.06
June	4.25	4.10	4.09	4.10	4.68	4.74
July	7.45	9.85	7.31	9.00	6.70	8.20
August	3.40	3.56	3.35	3.50	3.81	4.60
September	4.40	4.18	3.92	4.00	4.44	3.90
October	1.50	1.30	1.47	1.30	1.36	1.26
November	2.15	2.40	2.23	2.20	1.69	2.28
December	5.00	5.22	5.00	5.20	5.00	5.44
	43.75	47.73	43.66	46.25	44.87	47.80

Respectfully submitted,

WM. L. KENLY,

Engineer and Superintendent County Division.

JONES' FALLS SUPPLY FOR THE YEAR ENDING DECEMBER 31, 1887.

NUMBER OF GALLONS.

Month	Clear water over Lake Roland Dam	Muddy water over Lake Roland Dam.	Water from Bottom Gates Lake Roland G House.	Clear Water sent through Conduit Gates Lake Roland.	Total Flow Jones' Falls Per Month.	Average Flow of Stream Per Day.	Rain Fall Hampden Reservoir	Rain fall, Druid Lake.	Waste from Gates "Harper Waste Weir."	Decrease of Storage in Hampden Reservoir and Druid Lake.	Waste over Weirs on Conduit	Water Sent to Druid Lake.	Waste from Bottom of Lake Break No. 11 Stop	Increase of Storage in Hampden Reservoir and Druid Lake	Total Waste on Line including Flow over Dam	Average Waste Per Day	Sent to City During the Month.	Average Sent to City Per Day.	Pumped to High Service Reservoir.
January	500,000,000	137,000,000	246,000,000	357,000,000	1,240,000,000	40,000,000	500,000	4,000,000	.....	.....	.....	361,500,000	40,000,000	.....	993,000,000	29,800,000	321,500,000	10,371,000	63,240,150
February	549,000,000	.....	266,000,000	356,000,000	1,304,000,000	43,600,000	900,000	6,800,000	.....	.....	.....	263,700,000	.....	.....	1,048,000,000	32,100,000	263,700,000	9,418,000	57,973,950
March	720,000,000	.....	87,000,000	369,000,000	1,378,000,000	47,000,000	800,000	5,600,000	12,000,000	.....	3,600,000	260,400,000	.....	.....	1,124,000,000	36,500,000	300,100,000	11,626,000	60,590,740
April	52,000,000	.....	40,000,000	475,000,000	1,308,000,000	43,600,000	600,000	1,500,000	.....	12,000,000	.....	480,100,000	8,000,000	.....	978,000,000	32,600,000	407,000,000	13,067,600	73,100,065
May	259,000,000	1,550,000,000	271,000,000	494,000,000	1,240,000,000	40,000,000	800,000	5,000,000	.....	20,000,000	.....	490,800,000	10,000,000	.....	775,000,000	25,900,000	489,800,000	15,800,000	99,707,100
June	260,000,000	.....	294,000,000	510,000,000	1,064,000,000	35,400,000	900,000	6,000,000	10,000,000	.....	.....	500,500,000	.....	32,600,000	861,000,000	48,700,000	471,000,000	15,800,000	102,387,450
July	280,000,000	.....	221,000,000	513,000,000	1,014,000,000	32,700,000	2,000,000	12,900,000	.....	.....	.....	527,000,000	.....	.....	861,000,000	46,200,000	527,000,000	17,000,000	101,503,350
August	67,000,000	.....	103,000,000	454,000,000	624,000,000	20,100,000	800,000	5,000,000	.....	60,000,000	.....	459,800,000	30,000,000	.....	200,000,000	6,500,000	489,800,000	15,774,600	121,953,900
September	77,000,000	.....	.....	536,000,000	613,000,000	20,100,000	900,000	6,000,000	.....	.....	.....	542,900,000	.....	60,000,000	77,000,000	48,900,000	489,800,000	16,097,000	87,974,850
October	12,000,000	.....	19,000,000	527,000,000	558,000,000	18,000,000	500,000	2,700,000	.....	.....	.....	530,000,000	.....	.....	31,000,000	1,000,000	530,000,000	17,100,000	101,884,350
November	70,000,000	.....	.....	470,000,000	540,000,000	18,000,000	500,000	3,500,000	.....	.....	4,000,000	470,000,000	.....	11,000,000	74,000,000	2,500,000	470,000,000	15,300,000	75,959,100
December	37,000,000	.....	287,000,000	488,000,000	1,132,000,000	36,500,000	1,000,000	8,000,000	10,000,000	11,000,000	5,000,000	482,000,000	5,000,000	.....	694,000,000	22,400,000	458,000,000	14,800,000	69,718,200
Totals	3,753,000,000	272,000,000	2,697,000,000	5,449,000,000	12,171,000,000	33,416,000	10,000,000	69,100,000	32,000,000	103,000,000	12,000,000	5,484,100,000	220,000,000	103,000,000	6,986,000,000	19,191,666	5,263,000,000	14,387,550	1,024,993,805

GUNPOWDER WATER SUPPLY FOR THE YEAR ENDING DECEMBER 31, 1887.

NUMBER OF GALLONS.

Month	Clear water over Loch Raven Dam	Muddy Water over Loch Raven Dam	Waste Water from Bottom Gates, Loch Raven Gate house	Clear Water sent to Lake Montebello from Loch Raven	Total Flow of the Gunpowder Per Month	Average Flow of Stream Per Day	Spring Water Making in Tunnel	Rain Fall, Lake Montebello.	Waste from Bottom of Lake Montebello	Waste from Bottom In-fluent Channel from Montebello G. H.	Waste over Weirs in Lake Montebello Gate house	Water Sent to Clinton Gate house from Lake Montebello.	Waste Water from Bottom of Gate Lake Chatter, Gate house	Waste Water over Weirs on Lake Clinton Gate house	Total Waste on Line including Flow over Dam	Average Waste Per Day	Sent to City During the Month	Average Sent to City Per Day	Sent to City from Both Supplies Per Day	Decrease of Storage Lake Montebello.	Increase of Storage, Lake Montebello.
January	2,937,000,000	3,009,000,000	1,308,000,000	1,026,000,000	7,640,000,000	246,000,000	93,000,000	5,000,000	490,000,000	.....	10,000,000	434,000,000	.....	.....	7,304,000,000	235,600,000	434,000,000	14,000,000	24,371,000	.....	.....
February	3,141,000,000	1,588,000,000	1,438,000,000	750,000,000	8,200,000,000	270,000,000	84,000,000	7,000,000	440,000,000	.....	6,000,000	440,000,000	.....	.....	8,600,000,000	283,750,000	440,000,000	15,000,000	24,418,000	.....	.....
March	4,108,000,000	2,700,000,000	1,438,000,000	924,000,000	10,770,000,000	356,000,000	90,000,000	30,000,000	837,000,000	28,000,000	23,000,000	68,000,000	.....	.....	11,300,000,000	406,000,000	400,000,000	16,887,000	28,013,000	.....	.....
April	1,674,000,000	7,800,000,000	1,020,000,000	1,385,000,000	7,888,000,000	260,000,000	20,000,000	40,000,000	915,000,000	.....	21,000,000	545,000,000	1,000,000	.....	11,488,000,000	380,000,000	444,000,000	18,133,000	39,400,000	.....	.....
May	3,733,000,000	1,900,000,000	.....	1,300,000,000	8,200,000,000	270,000,000	50,000,000	5,000,000	850,000,000	.....	20,000,000	560,000,000	1,000,000	.....	7,641,000,000	246,000,000	470,000,000	21,800,000	.....	.....	.....
June	1,411,000,000	1,678,000,000	1,020,000,000	943,000,000	7,888,000,000	260,000,000	50,000,000	7,000,000	1,000,000,000	1,000,000,000	5,000,000	682,000,000	2,000,000	.....	7,000,000,000	400,000,000	600,000,000	21,000,000	36,800,000	.....	.....
July	364,000,000	4,301,000,000	1,438,000,000	624,000,000	6,504,000,000	216,000,000	90,000,000	4,000,000	210,000,000	.....	2,000,000	680,000,000	1,000,000	.....	6,500,000,000	216,000,000	480,000,000	22,000,000	39,000,000	162,000,000	.....
August	63,000,000	1,301,000,000	1,600,000,000	780,000,000	7,808,000,000	257,000,000	50,000,000	7,000,000	300,000,000	.....	.....	724,000,000	1,000,000	.....	7,000,000,000	226,000,000	720,000,000	20,371,000	.....	162,000,000	.....
September	1,300,000,000	1,382,000,000	1,438,000,000	1,400,000,000	4,800,000,000	156,000,000	40,000,000	6,000,000	540,000,000	.....	28,000,000	662,000,000	2,000,000	.....	4,200,000,000	140,000,000	600,000,000	28,000,000	.....	.....	.....
October	1,644,000,000	.....	1,380,000,000	1,400,000,000	4,600,000,000	150,000,000	50,000,000	5,000,000	840,000,000	.....	20,000,000	622,000,000	2,000,000	.....	4,000,000,000	130,000,000	600,000,000	20,000,000	37,400,000	.....	.....
November	1,684,000,000	.....	.....	1,400,000,000	4,200,000,000	134,000,000	50,000,000	5,000,000	840,000,000	.....	17,000,000	634,000,000	1,000,000	.....	3,700,000,000	120,000,000	600,000,000	19,000,000	.....	.....	.....
December	2,000,000,000	1,604,000,000	1,438,000,000	1,400,000,000	6,012,000,000	197,000,000	50,000,000	8,000,000	590,000,000	.....	16,000,000	624,000,000	1,000,000	.....	5,400,000,000	177,000,000	600,000,000	20,000,000	34,800,000	.....	.....
Total	26,460,000,000	27,000,000,000	18,430,000,000	11,348,000,000	84,412,000,000	2,743,333,333	1,090,000,000	73,000,000	7,151,000,000	95,000,000	1,200,000,000	7,088,000,000	15,000,000	.....	7,220,000,000	28,387,333	7,620,000,000	19,417,333	34,811,116	162,000,000	162,000,000

Respectfully submitted.

WM. L. KENLY,

Engineer and Superintendent County Division Baltimore Water Department.

—THE—
FOURTH ANNUAL REPORT
OF THE
BOARD OF FIRE COMMISSIONERS,
AND THE
Twenty-Ninth Annual Report
OF THE
FIRE DEPARTMENT,
TO THE
Mayor and City Council of Baltimore,
FOR THE
FISCAL YEAR ENDING DECEMBER 31, 1887.

OFFICERS OF THE FIRE DEPARTMENT.

FIRE COMMISSIONERS:

J. ALEXANDER PRESTON, *President*;

JOHN F. HUNTER, SAMUEL W. REGESTER.

SECRETARY AND CLERK:

DAVID H. LUCCHESI.

CHIEF ENGINEER:

JOHN M. HENNICK.

ASSISTANT ENGINEERS:

GEORGE W. ELLENDER, THOS. F. MURPHY.

SUPERINTENDENT OF MACHINERY:

GEORGE J. LINSENMEYER.

SUPERINTENDENT OF POLICE AND FIRE ALARM TELEGRAPH:

CHARLES J. McALEESE.

REPORT.

OFFICE OF BOARD OF FIRE COMMISSIONERS—CITY HALL.

BALTIMORE, January 1st, 1888.

To the Honorable,

The Mayor and City Council of Baltimore:

GENTLEMEN:

The undersigned Commissioners respectfully submit to your consideration their report for the year ending December 31st, 1887.

The only change in the Department, since the last report we had the honor to submit, is the equipment and of placing in service No. 5 Hook and Ladder Company, which is located on Aisquith street, near Oliver street; the whole force of the Department now consisting of thirteen engine companies and five truck companies.

The lot on the corner of Ostend and Hanover streets, has been improved by a truck house, and only awaits the action of your honorable body to provide the means with which to purchase the necessary equipment, and provide for the salaries of the firemen.

A lot on Munroe street has been purchased by the City, where it is proposed to erect an engine house, the plans of which have been drawn and the house is now in course of erection.

The building is to be known as No. 14 Engine Company, and will be in operation during the present year. The equipment of the Department during the last year has been increased by the purchase of a Silsby Rotary Steam Fire Engine, together with five Holloway Fire Extinguishers, and 6600 feet of new hose.

There are eighty horses in the Department. With few exceptions they are first class, and are all supplied with swinging harness. The above number of horses, with two exceptions, are actually employed at all times, and there should be at least six horses reserved for use in case of sickness, snows or accidents. Such a provision would result in economy to the City, as it is sometimes necessary to use the horses of the Departments when physically unable to perform the duties required of them.

It has been the custom of the Fire Commissioners for the last four years, to call the attention of your honorable body to the pressing needs of an increase in the machinery for putting out fires. Large portions of the City, where the most valuable property of the citizens is located, are entirely unprotected. The space from Paca to Harrison street, and from Barre to Lexington street, has no appliance for extinguishing a fire; and

there the largest part of the wealth of the City is located.

So much impressed were the Commissioners with this fact, that they specially called the attention of Mayor Hodges to it, who recommended that action should be taken by the Council in his annual message, but so far, the authorities have done nothing.

There should be at least two more steam engines added to the Department, one to be located in the area above designated, and one near the Union Depot on Charles street.

In addition to this, there should be a fire boat for the protection of wharf property and shipping in the harbor. These additions, with an increase of fire plugs in the central parts of the city, are indispensable to the security of the city.

There is no doubt about the efficiency of the department, and no doubt about the utter inadequacy of its equipment.

His Honor, the Mayor, has been furnished with data showing the relative cost, machinery and efficiency of the Fire Departments of all the prominent cities of the Union, with the expectation that he will call the attention of the community to the pressing needs of our own Department. It is an absolute necessity, that there shall be furnished an increased equipment, if the City of Baltimore desires to avoid the risk of a great conflagration.

The responsibility will rest solely on the authorities who fail to furnish the necessary means to prevent such a calamity.

During the year the Chief Engineer was seriously wounded, and Captain Schulte, of No. 12 Engine Company, lost his life whilst heroically performing his duty at the great fire on Pratt street.

In 1887 there occurred in Baltimore City 496 fires, and the losses aggregated \$1,162,359.26; of this amount the sum of \$787,981.27 was lost at four fires, viz: The fire at Darby & Co., the Patapsco Milling property, J. S. Young & Co., and Mason & Sons.

In 1886 there were 438 fires, and the losses aggregated \$896,527.12. It will therefore be perceived that with the exception of the four fires above referred to, the whole of the losses in the City from 492 fires, amounted to only \$374,377.99.

With this report is submitted the suggestions and report of the Chief Engineer and the Superintendent of Police and Fire-Alarm Telegraph, for the consideration of your honorable body.

The Commissioners file herewith Exhibits A, B, C, D, E and F.

Exhibit A shows the amount appropriated by the Mayor and City Council of Baltimore, for the Department of 1887, and the expenditures for that period.

Exhibit B shows the amount of special appropriations and its disbursement.

Exhibit C shows the general receipts of the Department for 1887.

Exhibit D shows the general expenditures for 1887, and Exhibit E the general statement for 1887.

Exhibit F shows the expenditures of each Company.

The Commissioners append herewith the estimate of the financial requirements of the Department for 1888.

ESTIMATE FOR 1888.

Salaries.....	\$140,000 00
Apparatus	20,750 00
Apparatus repairs.....	4,000 00
Accident.....	3,000 00
Feed	10,000 00
Fuel.....	2,500 00
Furniture.....	700 00
Harness.....	500 00
Horse-shoeing.....	1,500 00
Hose and sucking sleeves.....	9,000 00
Horses.....	6,000 00
Ground rent.....	1,054 25
Gas.	1,000 00
Oils, grease, &c.....	1,500 00
Office expenses, including printing report and Messenger's salary	1,200 00

ESTIMATE FOR 1888.—Continued.

Rent of telephones.....	600 00
Miscellaneous.....	1,000 00
Washing.....	1,500 00
Insurance.....	1,200 00
Sick Account.....	1,500 00
Disabled Firemen.....	3,500 00
P. & F. A. Telegraph.....	24,000 00
Total.....	\$236,004 25

J. ALEXANDER PRESTON, *President*,
JOHN F. HUNTER,
SAMUEL W. REGESTER,
Fire Commissioners.

EXHIBITS.

EXHIBIT A.

Appropriation.

Amount appropriated by Honorable Mayor and City Council for the year of 1887.....	\$201,604	25
Amount drawn from City Comptroller.....	201,604	22
Balance undrawn.....	\$	03

EXHIBIT B.

Special Appropriations.

Amount appropriated by Honorable Mayor and City Council for eighteen (18) Fire Alarm Boxes, viz: 122, 158, 165, 237, 238, 259, 273, 328, 365, 367, 368, 427, 428, 436, 463, 464, 474, 475.....	\$3,225	00
Amount drawn from City Comptroller.....	3,224	48
Balance undrawn.....	\$	52

Amount appropriated by Honorable Mayor and City Council for placing "Keyless" doors on twenty-seven (27) Fire Alarm Boxes, viz: 12, 13, 121, 123, 141, 21, 24, 3, 31, 318, 4, 41, 412, 413, 414, 415, 418, 422, 5, 51, 512, 513, 521, 523, 525, 526, 6.....	\$1,350	00
Amount drawn from City Comptroller.....	1,350	00

EXHIBIT B—Continued.

Amount appropriated by Honorable Mayor and City Council for "lot of ground" in western section of the City, on which to erect an engine house.....	\$3,000 00
Amount drawn from City Comptroller.....	3,000 00

Amount appropriated by Honorable Mayor and City Council for equipping No 5 Hook and Ladder Company.....	\$7,650 00
Amount drawn from City Comptroller.....	7,649 91

Balance undrawn.....	\$ 09
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Amount appropriated by Honorable Mayor and City Council for two (2) Fire Alarm Boxes, viz: 519 and 614.	\$397 50
Amount drawn from City Comptroller.....	397 50

EXHIBIT C.

General Receipts.

Balance on hand—store-room stock—December 31st, 1886	\$	145	00
Amount drawn from City Comptroller for the year 1887.....		201,604	22
Amount received from sale of manure and old material.....		236	48
Amount received from Insurance Company for injured members.....		1,058	55
Total.....	\$	203,044	25

EXHIBIT D.

Showing the amount expended for the year ending
December 31st, 1887.

Salaries.....	\$132,691 08
Apparatus and repairs	10,482 63
Accident,.....	2,649 17
Feed.....	7,358 50
Fuel.....	2,142 75
Furniture.....	447 14
Harness.....	343 57
Horse-shoeing.....	1,477 80
Hose and sucking sleeves.....	6,075 78
Horses	4,625 00
Ground rent.....	704 25
Gas	479 75
Oils, grease, &c.....	1,327 41
Office expenses, including printing Report and Messenger's salary.....	823 57
Telephones.....	579 40
Miscellaneous.....	1,177 05
Washing.....	1,288 75
Insurance on lives of members.....	1,016 88
Disabled Firemen.....	2,683 06
Sick members.....	421 78
Fire Alarm Telegraph.....	22,813 90
	\$201,609 22
Insurance indemnity paid to members.....	1,058 55
	\$202,667 77

EXHIBIT E.

General Statement.

Receipts from all sources.....	\$203,044 25
Expenditures	\$202,667 77
Amount paid to City Register...	236 48
	\$202,904 25
Balance store-room stock, De-	
cember 31st, 1887.....	140 00
	\$203,044 25

EXHIBIT F.

Company Expenditures.

No.	1	Engine Company.....	\$	9,531	81
"	2	" ".....		9,536	98
"	3	" ".....		9,896	43
"	4	" ".....		9,736	69
"	5	" ".....		9,228	33
"	6	" ".....		8,755	48
"	7	" ".....		9,189	02
"	8	" ".....		9,073	47
"	9	" ".....		9,482	12
"	10	" ".....		8,222	98
"	11	" ".....		7,984	50
"	12	" ".....		8,975	36
"	13	" ".....		11,761	90
"	1	Hook and Ladder Company.....		9,545	41
"	2	" " " ".....		10,303	95
"	3	" " " ".....		8,877	83
"	4	" " " ".....		10,177	54
"	5	" " " ".....		762	78
				\$161,042	58
Telephones.....				579	40
Reserve apparatus.....				613	11
Officers' salaries and repairs.....				12,652	87
Miscellaneous.....				400	73
Office expenses.....				823	57
Disabled firemen.....				2,683	06
Fire Alarm Telegraph.....				22,813	90
				\$201,609	22

REPORT

OF THE

CHIEF ENGINEER

REPORT.

OFFICE OF CHIEF ENGINEER, CITY HALL.

BALTIMORE, January 1st, 1888.

To the Honorable Board of Fire Commissioners.

GENTLEMEN:

I have the honor herewith to submit to you the annual report of the Fire Department for the fiscal year, ending December the 31st, 1887, which is the twenty-ninth report of the paid Fire Department of the City of Baltimore.

I was off duty one hundred and nineteen days, from injuries received at the fire on Charles street, on August 4th; during which time Assistant Engineer Ellender acted as Chief Engineer, and Captain Horton, of No. 4 Engine Company, acted as Assistant Engineer of the Eastern District.

FORCE OF THE DEPARTMENT.

During the past year an additional Hook and Ladder Company was organized, making the force to consist of thirteen Engine Companies, five Hook and Ladder Companies, and two hundred and fifteen Members; of which ninety-seven are permanent Members and one

hundred and eighteen are call Members. They are classed and receive salaries as follows:

PERMANENT MEMBERS UNIFORMED.

1 Chief Engineer.....	\$2,000 per annum.		
2 Assistant Engineers.....	1,400	“	“
1 Superintendent of Machinery	1,400	“	“
13 Enginemen, at the rate of.....	1,100	“	“
13 Assistant Enginemen, at the rate of	900	“	“
18 Drivers, at the rate of.....	900	“	“
10 Tillermen of Trucks, at the rate of	900	“	“
22 Firemen in Engine Companies,			
at the rate of.....	800	“	“
15 Laddermen in Truck Companies,			
at the rate of.....	800	“	“
97.			

CALL MEMBERS NOT UNIFORMED.

18 Captains, at the rate of.....	\$500 per annum.		
74 Firemen, at the rate of.....	400	“	“
25 Ladderman, at the rate of.....	400	“	“
1 Superintendent of Horses.....	500	“	“
215.			

SUBSTITUTES.

There are five substitute members to each company. They give their services to the Department for no compensation, except when on duty for regular members. They are in line for promotion.

APPARATUS.

There are eighteen Steam Fire Engines, thirteen in service with companies and five in reserve, twenty-six four-wheel Hose Carriages, each Engine being provided with two; seven Hook and Ladder Trucks, five of them are Hayes' Extension Ladder Trucks, and two are Bank Ladder Trucks, five of them are in service with companies, and two in reserve; thirty-four fire Extinguishers of five gallons capacity, they are carried two on the first Hose Carriage of each Engine Company, and on Nos. 3, 4 and 5 Hook and Ladder Trucks; and four fire Extinguishers of fifteen gallons capacity, they are carried on No. 1 and 2 Hook and Ladder Trucks. Twelve steam heaters for Engines, all the Engine Companies are provided with them except No. 10. One wrecking Truck, and four Concord wagons, fitted up with large gongs for the use of the officers.

NEW APPARATUS.

The apparatus of the Department has been increased by the addition of a Silsby Rotary Steam Fire Engine, which was received on August the 3rd, and placed in service at No. 13 Engine Company. The engine formerly used by No. 10 Engine Company was given in exchange.

Five new five-gallon Holloway Fire Extinguishers were received and placed in service,—one at No. 3 Engine Company, two at No. 4 Engine Company, one at No. 5 Engine Company and one at No. 11 Engine Company. They replaced old ones that were worn out.

A new heater to connect to the engine and heat the water in the boiler, was placed in service at No. 13 Engine Co. A life saving net, for people to jump in from the windows of burning houses, was placed in service at No. 13 Engine Co., as they are the greatest distance from a hook and ladder company.

Extra axles, to be kept in reserve, were made for the use of Nos. 6, 9 and 10 Engines.

REPAIRS TO APPARATUS.

All the apparatus is in good serviceable condition—all necessary repairing having been done. The following are some of the principal items:

The Hayes Truck that was turned over at the Camden Street fire has been rebuilt by the La France Company, it has a new frame, new extension ladders, one new twenty-four foot ladder, new tires on wheels, all the iron work overhauled, new improvements put on, and the truck and ladders painted, making it a new truck.

Two Concord wagons for the use of the Officers of the Department were re-built and painted by George Colfresh.

A new cage was put in one of the pumps on No. 1 Engine. The fuel wagon that is used by No. 3 Hook and Ladder Company was rebuilt by William Poetter, a new body and springs were put on, new tires and fellows on wheels, iron work overhauled and wagon painted.

The engine formerly used by No. 13 Engine Company was overhauled by Hooper & Co., and repairs

DESCRIPTION OF STEAM FIRE ENGINES.

Engines.	BUILT BY.	PLACED IN SERVICE.	REBUILT BY.	PLACED IN SERVICE.	WEIGHT AS DRAWN TO FIRES.	CYLINDERS.		Pumps.		GALLONS PER MINUTE.	STYLE OF ENGINES.
						Diameter.	Stroke.	Diameter.	Stroke.		
No. 1.	Ives & Bro.	March, 1874.	La France Co.	April 11, 1884.	9,420	8½	10	4¾	10	900	Double, vertical, Crane neck, piston.
No. 2.	Ives & Bro.	March 6, 1867.	La France Co.	September 2, 1884.	8,150	9½	12	5½	12	600	Single, horizontal, straight frame, piston.
No. 3.	Ives & Bro.	February 3, 1874.	Clapp & Jones.	December 29, 1884.	9,600	8½	10	5	10	1020	Double, vertical, Crane neck, piston.
No. 4.	Ives & Bro.	November 20, 1873.	La France Co.	March 13, 1883.	9,400	8½	10	4¾	10	900	Double, vertical, Crane neck, piston.
No. 5.	Clapp & Jones.	December 16, 1885.	.....	.....	6,700	6¼	7	3¾	7	600	Double, horizontal, half Crane neck, piston.
No. 6.	La France Co.	December 18, 1884.	.....	.....	7,400					500	Crane neck, rotary.
No. 7.	Reaney & Neafil	September 26, 1858.	Clapp & Jones.	November 26, 1883.	6,900	9	12	5	12	450	Single, vertical, straight frame, piston.
No. 8.	Poole & Hunt.	July 2, 1868.	Ives & Bro.	September 9, 1878.	6,800	11	8	4¾	8	240	Single, horizontal, straight frame, piston.
No. 9.	La France Co.	October 6, 1886.	.....	.....	7,480	7¼	8	4¾	8	650	Double, vertical, Crane neck, piston.
No. 10.	Clapp & Jones.	September 26, 1886.	.....	.....	7,160	7½	7	4¾	7	650	Double, vertical, Crane neck, piston.
No. 11.	Poole & Hunt.	August 9, 1868.	Ives & Bro.	November 6, 1875.	6,430	11	8	4½	8	240	Single, horizontal, straight frame, piston.
No. 12.	Clapp & Jones.	August 6, 1885.	.....	.....	6,825	6¼	7	3¾	7	600	Double, horizontal, straight frame, piston.
No. 13.	Silsby Co.	August 10, 1887.	.....	.....	6,700					600	Crane neck, rotary.

Description of Hook and Ladder Trucks, Number of Members.

NUMBER.	LOCATION.	BUILDERS.	PLACED IN SERVICE.	WEIGHT AS DRAWN TO FIRES.	NUMBER OF LADDERS.	NUMBER OF MEMBERS.		
						Perma- nent.	Call.	Total.
A—No. 1.....	Harrison street.....	La France Co.	March 5, 1883.	8,380	10	6	6	12
B—No. 2.....	Paca, near Fayette street	La France Co.	March 2, 1887.	8,420	10	6	6	12
C—No. 3.....	Ann, near Gough street.....	Ives & Bro.	November 16, 1875.	5,600	11	6	6	12
D—No. 4.. ..	Biddle street, near Druid Hill ave...	La France Co.	October 1, 1884.	7,250	10	6	6	12
E—No. 5.....	Aisquith, near Oliver street.....	La France Co.	May 5, 1887.	6,900	10	6	6	12
F—Reserve ...	No. 4 Truck House.....	La France Co.	March 5, 1883.	8,420	10	...	...	...
G—Reserve ...	No. 4 Truck House.....	Ives & Bro.	February 8, 1859.	5,650	11	...	...	...

ENGINES IN RESERVE.

NAMES.	LOCATED.	BUILT BY	WHEN BUILT.	REBUILT BY	WHEN REBUILT.	WEIGHT.	CYLINDER.		PUMP.		GALLONS PER MINUTE.	STYLE OF ENGINES.
							Diam- eter.	Stroke.	Diam- eter.	Stroke.		
A., Formerly No. 5....	No. 4 Engine House.	Ives & Bro.	1864	Ives & Bro.	1879	8,600	11	12	4 $\frac{3}{8}$	12	340	Single, horizontal, straight frame, piston.
B., Formerly No. 6....	No. 11 Engine House.	Ives & Bro.	1864	.....	.....	7,000	9	12	5	12	220	Single, horizontal, straight frame, piston.
C., Formerly No. 9....	No. 9 Engine House.	Ives & Bro.	1871	.....	.....	7,800	12	12	5	12	340	Single, horizontal, straight frame, piston.
D., Formerly No. 13...	No. 13 Engine House.	Ives & Bro	1876	.....	.....	7,800	9 $\frac{1}{2}$	12	5 $\frac{1}{2}$	12	280	Single, horizontal, straight frame, piston.
E., Baltimore	No. 5 Truck House...	Poole & Hunt.	1859	Ives & Bro.	1878	8,000	11	12	4 $\frac{3}{8}$	12	340	Single, horizontal, straight frame, piston.

made to the boiler and pump ; it is in good condition and used as a reserve engine.

A new pump, made by Clapp & Jones, was put on No. 7 engine, in place of the pump broken when working at the fire on August 4th.

A new rotary pump was put on No. 6 Engine by the La France Company, in place of the rotary pump that had worn out.

A set of new wheels, Warner's patent, was put on No. 5 Engine Company's first hose carriage.

NEW APPARATUS REQUIRED.

Two Steam Fire Engines of six hundred gallons capacity, for Nos. 8 and 11 Engine Companies, as the engines these Companies have in service are of small capacity, and have been in service twenty years.

One Steam Fire Engine of eight hundred gallons capacity for No. 2 Engine Company, as this Company guards some of the largest and most valuable warehouse property, and require an engine of greater capacity ; the engine they now have in service will be suitable for No. 14 Engine Company.

One second-size Hayes Truck with extension ladders for No. 3 Hook and Ladder Company, to replace the Bank Ladder Truck they now have in service, as the longest ladder it carries is forty-six feet, and there are many buildings in the section of the city that they protect where this ladder will not reach the upper win-

dows. The bank ladder truck can be transferred to No. 6 Hook and Ladder Company, when they are organized.

Two Hose Carriages similar to those recently built and now in service at Nos. 4 and 6 Engine Companies, to replace two of the old ones.

Summary of improvements required to place the Fire Department in a proper condition, and asked for in the yearly report of 1887:

A steam boat fitted up with a suitable pump and machinery for fire purposes, to be used in protecting the shipping and property along the water front.

Three additional Engine Companies, Nos. 14, 15 and 16, located:—No. 14 at Hollins and Monroe streets; No. 15, Liberty, near Lombard streets, and No. 16, in the vicinity of Charles Street Bridge. Three new steam fire engines to be placed in service at Nos. 2, 8 and 11 Engine Companies. Three single tank chemical engines, of one hundred gallons capacity, to be placed in service at Nos. 1, 4 and 5 Hook and Ladder Companies. One Extension Ladder Truck, to be placed in service at No. 3 Hook and Ladder Company.

The city divided into four districts, and two more Assistant Engineers appointed.

The Captains of the Hook and Ladder Companies made permanent members and uniformed.

All the members in Nos. 1, 2, 3 and 4 Engine Companies made permanent and uniformed.

An additional permanent member placed in Nos. 5, 6, 7, 8, 9, 10, 11, 12 and 13 Engine Companies, in place of a call member.

A four-wheel wagon for No. 5 Hook and Ladder Company, to be used for hauling fuel to engines at fires.

Five five-gallon Fire Extinguishers, as some of those in service are old and worn out.

Three four-wheel, single-tank, Chemical Engines, of eighty-five (85) gallons capacity to be drawn by one horse; to be placed in service at Nos. 1, 4 and 5 Hook and Ladder Companies.

HORSES.

The horses are, with a few exceptions, in first-class condition, as nearly all of them are young and suitable for the service. During the past year, twenty two (22) horses were purchased; three of which were for the new Hook and Ladder Company, No. 5, and eighteen (18) horses that were disabled and unfit for the service, were given in exchange. There are now in service eighty (80) horses. They are distributed in the following manner:

Thirteen Engine Companies, four horses to each company.....	52
Five Hook and Ladder Companies, three horses to each company.....	15

Used by Officers of Fire Department.....	7
Used by Fire Alarm Telegraph.....	3
Used by Supply Wagon.....	1
In reserve for use of Engine Companies.....	2
Total.....	80

HARNESS.

All the companies are supplied with swinging harness, which is in good condition. Four sets of single swinging harness is required, to be worked on the horses that are used by the officers of the Department; as their horses are required to have the harness on at all times; which is injurious to the horses, and the harness is rubbed out and frequently broken by the horses lying down in the stalls.

HOSE.

There was purchased during the past year, six thousand and six hundred (6,600) feet of new hose, with couplings; two thousand and six hundred (2,600) feet of which was gum hose of the following brands: Maltese Cross, Puritan and New York Belting and Packing Company's test hose, and four thousand (4,000) feet of fabric hose, Eureka, Baker Frabric, and Peerless brands. Two thousand (2,000) feet of double jacket fabric hose had the outside covering renewed. There is now in service twenty thousand two hundred and ninety (20,290) feet of good reliable hose, fourteen thousand one hundred and forty (14,140) feet of which is

fabric, and six thousand one hundred and fifty (6,150) feet is gum hose. There is also in service nine thousand and nine hundred and fifty (9,950) feet of hose, fabric and gum, that is not reliable to stand more than one hundred and seventy (170) pounds pressure; and nine thousand four hundred and fifty (9,450) feet of hose, three thousand and one hundred (3,100) feet of fabric, and six thousand three hundred and fifty (6,350) feet of gum hose that would not stand the required pressure when tested at two hundred (200) pounds; was condemned and put out of service. Ten thousand (10,000) feet of new hose will be required during the coming year to replace what has been condemned. The following table will show the quantity and condition of the hose in service:

HOSE.

COMPANIES.

	RELIABLE		RELIABLE		MEDIUM		MEDIUM		CONDEMNED	
	FABRIC HOSE.	FEET.	GUM HOSE.	FEET.	FABRIC HOSE.	FEET.	GUM HOSE.	FEET.	FABRIC HOSE.	FEET.
Engine Company, No. 1.....	2,150	450	.....	.....	.....	400	.....	100	.....	450
Engine Company, No. 2.....	100	900	.....	.....	.....	700	.....	50	.....	500
Engine Company, No. 3.....	1,600	250	.....	.....	200	600	.....	150	.....	300
Engine Company, No. 4.....	2,150	250	.....	1,000	.....	.....	.....	1,350	.....	50
Engine Company, No. 5.....	1,000	700	.....	150	.....	500	.....	250	.....	450
Engine Company, No. 6.....	1,200	600	.....	400	.....	400	.....	300	.....	400
Engine Company, No. 7.....	1,400	.....	.....	600	.....	.....	.....	.....	.....	800
Engine Company, No. 8.....	450	.....	.....	.....	.....	1,000	.....	.....	.....	800
Engine Company, No. 9.....	700	700	.....	600	.....	400	.....	100	.....	400
Engine Company, No. 10.....	150	700	.....	.....	.....	900	.....	50	.....	400
Engine Company, No. 11.....	300	800	.....	.....	.....	900	.....	600	.....	200
Engine Company, No. 12.....	140	900	.....	.....	.....	900	.....	.....	.....	1,400
Engine Company, No. 13.....	2,800	100	.....	.....	.....	300	.....	100	.....	200
	14,140	6,150		2,950		7,000		3,100		6,350

FIRES.

The number of fires during the past year was 496, of which 313 were sent in from the fire alarm boxes, this is an increase of 45 box alarms over the preceding year, and 183 were silent fires. The total loss was \$1,162,359.26, and the total insurance was \$3,002,887.00, of which amount \$787,781.27 was caused by the four following fires:

Darby & Co., wholesale candy and fruit dealers, store and warehouse, \$150,346.00; Maryland Caroline Mill works and the Patapsco Flour Mill, \$135,595.20; J. S. Young & Co., bark extract mill and storage warehouse, \$240,699.95; Mason & Son's, and Henderson & Law's factories and three warehouses, \$261,340.12.

Second alarms were sent out for seven fires, and second and third alarms were sent out for fourteen fires, and general alarms were sent out for two fires. There were ten fires where the loss of each one exceeded ten thousand dollars, namely:

January, 13th—Box 248—Time of first alarm, 7.01 P. M.; second alarm, 7.09 P. M.; third alarm, 7.14 P. M.; recall, 9.56 P. M. Four, five and six-story brick building north-east corner of Holliday and Hillen streets, occupied by Rosenburg, Happ & Co., manufacturers of kid leather. The fire was confined to the centre of the building, on the third and fourth floors. Eight engines and three trucks were in service. Loss, \$19,442.79; insurance, \$60,000.00.

January 18th—Box 526—Time of first alarm, 11.16 P. M.; general alarm, 11.20 P. M.; recall 9.14 A. M., January 19th. Three and four-story brick building, thirty feet wide, and one hundred and fifty feet deep, extending from Conway to Perry streets, occupied by Charles M. Stieff, as a piano factory. The building destroyed was the rear section of the factory, and was connected to the main building on Camden street by a wooden bridge. Ten engines and three trucks were in service. Loss, \$24,779.35; insurance, \$20,348.00.

February 19th—Box 26—Time of first alarm, 3.59 A. M.; second alarm, 4.04 A. M.; third alarm, 4.32 A. M.; recall, 10.40 A. M. Four-story brick building No. 6 and 8 Edward street, occupied by Gunther & Fink, as a furniture factory. Six engines and two trucks were in service. Loss, \$12,541.19; insurance, \$11,200.00.

February 26th—Box 414—Time of first alarm, 6.45 A. M.; second alarm, 6.48 A. M.; third alarm, 6.50 A. M.; recall, 8.59 P. M. Five-story iron building with mansard roof, south-east corner of Baltimore and Howard streets, occupied by Darby & Co., manufacturers of candies and dealers in fruits. The fire commenced in the basement, and went up the elevator to the upper stories. The entire building fell down in seventeen minutes from the time the alarm was given. Eleven engines and three trucks were in service. Loss, \$150,340.63; insurance, \$110,000.00.

March 29th—Box 161—Time of alarm, 8.35 P. M.; recall, 9.53 P. M. Three-story brick building No. 180 and

182 south Broadway, occupied by Jacob Frankel, dealer in dry goods and notions. The fire was confined to the first story. Two engines and one truck was in service. Loss, \$15,238.00; insurance, \$24,000.00.

July 15th—Box 131—Time of first alarm, 12.51 P. M.; second alarm, 12.53 P. M.; third alarm, 12.55 P. M.; recall, 12.44 A. M., July 16th. Four three-story brick buildings Nos. 15, 16, 17 and 18 Buchanan's Wharf, occupied by the Maryland Coralline works, and as storage warehouses for grain and flour by the Patapsco Mill Company. There was a narrow alley between these buildings and the Patapsco Flour Mill, a double, six-story brick building, fronting on Smith's Wharf, which the fire crossed (as the wind was blowing from the east), and burned the roof and wood-work over the bins on the fifth and sixth stories. This part of the building contained eighty thousand bushels of wheat which was damaged by water. The building adjoining contained the mill machinery used in making flour, which was slightly damaged by water. Eleven engines, four trucks, and the steam tug boat, Convoy, belonging to the Baltimore and Ohio Railroad Company, was in service. Loss, \$135,595.20; insurance, \$417,300.00.

July 21st—Box 184—Time of first alarm, 9.21 P. M.; second alarm, 10.04 P. M.; recall, 11.55, July 23d. A large frame building, covered on the outside with sheet iron, occupied by J. S. Young & Co., manufacturers of extracts from bark, and was situated on Boston street, facing Ellicott street. The building was ninety (90)

feet front, two hundred and twenty-eight (228) feet deep, and forty (40) feet high. It contained two thousand five hundred tons of licorice root in bales, a large quantity of bark and machinery; and was surrounded by a number of frame and brick buildings, separated from the building that burned by a twenty foot driveway, two of these buildings on the west side was slightly damaged. There was considerable delay in sending out the second alarm, as the great storm that occurred during the day had disarranged some of the telegraph wires, and the location of the fire being in the extreme eastern section, was more than two miles from the nearest company that answers to the second alarm. Eight engines and two trucks of the City Department, and the steam tug boat, Convoy, belonging to the Baltimore and Ohio Railroad Company, was in service. This boat rendered valuable aid, as they towed out three Italian barks that were at the wharves and then went in service, and with their two streams saved two buildings that were situated on the south-east side of the fire, where the streams from the engines could not get to, as the fire was between them. The apparatus of the Department was in service at this fire five days; as the immense pile of bark and licorice root kept burning up and endangering the surrounding property. Loss, \$240,699.95; insurance, \$276,845.88.

August 2d—Box 415—Time of first alarm 12.26 A. M.; general alarm 12.44 A. M.; recall 5.39 A. M. Four-story brick building, Nos. 4 and 6 south Eutaw street, occupied by the Richard Sauer Manufacturing Company,

dealers and manufacturers of show cases and mouldings. The stock and building was badly damaged. Ten engines and three trucks were in service. Loss, \$25,-950.00; insurance \$21,000.00.

August 4th—Box 521—Time of first alarm, 3.39 A. M.; general alarm, 3.44 A. M.; recall, 8.15 A. M., August 5th. Four-story brick building No. 17 and 19 east Pratt street, occupied by Jas. D. Mason & Sons, as a cracker bakery and fruit preserving factory. Four-story brick building Nos. 21 and 23 East Pratt street, occupied by Henderson & Laws, as a cracker and cake bakery and candy factory. Three-story brick building No. 15 east Pratt street, occupied by T. Newton Kurtz, as a book store. These buildings and their contents were totally destroyed. The three-story brick buildings, Nos. 25 and 27 east Pratt street, occupied by Leibrant & McDowell, dealers in stoves, and E. Whitman & Co., dealers in agricultural implements, had the roofs burned off and stocks damaged. Three-story brick building No. 13 east Pratt street, occupied by E. B. Owens & Co., commission merchants, had part of the roof burned. The four-story brick building with iron front, Nos. 201 and 203 south Charles street, occupied by E. L. Parker & Co., dealers and importers of tin plate and metals, was destroyed and the stock badly damaged. The four-story warehouses, Nos. 205 and 207 south Charles street, and the four-story warehouses, Nos. 8, 10 and 12 Camden street, had the window frames in the rear on the third and fourth stories burned out; and the goods in them slightly damaged. The fire com-

menced in the rear part of the buildings, Nos. 17 and 19 east Pratt street, and when the alarm was given two-thirds of the building was in flames, and the fire had burned through the roof. This and the adjoining building, Nos. 21 and 23 east Pratt street, were formerly used by the Baltimore and Ohio Railroad Company, as passenger and freight depots, before Camden Station was built. They were fifty-eight (58) feet front, two hundred and fifteen (215) feet deep, and four stories high. The water supply was inadequate—a condition due to the smallness of some of the street mains in this locality. Two of the engines, Nos. 2 and 4, that had the nearest plugs to the fire had to leave them and go to the dock, as they could not get water enough for a one-inch stream; which was a loss of time at the height of the fire. Eleven engines and three trucks were in service. Loss, \$261,340.12; insurance, \$331,833.00.

September 1st—Box 61—Time of first alarm, 1.10 A. M.; second alarm, 1.24 A. M.; recall, 4.12 A. M. Steam propeller Essex, of the Weems Line, lying at Pier No. 18 Light street wharf, the wood-work above deck was badly damaged. Six engines and three trucks were in service. Loss, \$14,296.00; insurance, \$30,000.00.

September 22d—Box 513—Time of first alarm, 3.21 A. M.; second alarm, 3.29 A. M.; third alarm, 3.31 A. M.; recall, 1.30 P. M. Four-story brick building, No. 113 south Sharp street, extending back to Cypress alley, occupied by Dobler & Mudge, wholesale paper dealers. The fire originated on the third floor, extended to the

fourth floor by the stairway, and burned off the roof. The stock was badly damaged. The stock in the adjoining building, No. 115 south Sharp street, occupied by Henry S. King & Sons, hardware dealers, and W. F. & B. Damman, dealers in woolens, was damaged by water. Ten engines and three trucks were in service. Loss, \$44,022.15; insurance, \$113,100.00.

Number of Fires and Losses each year since the organization of the Paid Fire Department.

YEAR.	NO. OF FIRES.	LOSSES.
1859.....	98.....	\$350,000 00
1860.....	112.....	310,000 00
1861.....	117.....	60,000 00
1862.....	130.....	83,000 00
1863.....	138.....	120,482 33
1864.....	143.....	163,528 49
1865.....	163.....	71,358 00
1866.....	178.....	181,115 00
1867.....	193.....	293,045 00
1868.....	145.....	76,244 75
1869.....	187.....	398,259 09
1870.....	203.....	432,717 07
1871.....	226.....	475,391 00
1872.....	245.....	300,000 00
1873.....	265.....	892,628 58
1874.....	384.....	506,826 15
1875.....	348.....	608,351 30
1876.....	332.....	563,248 78
1877.....	420.....	438,715 57
1878.....	371.....	162,312 78
1879.....	306.....	192,654 54
1880.....	343.....	580,290 09
1881.....	324.....	454,773 35
1882.....	358.....	330,113 84
1883.....	399.....	561,520 00
1884.....	388.....	617,871 79
1885.....	474.....	441,743 06
1886.....	430.....	896,527 12
1887.....	496.....	1,162,359 26

The Total Loss by Fires in 29 years has been \$11,725,076 94

Fire Alarm Boxes where Second and Third Alarms were sent from in 1887.

BOX.	WHERE LOCATED.	DATE.	SECOND.	THIRD.
316	Monument and North Streets.....	January 12	Second	Third
248	Holliday and Bath Streets.....	January 13	Second	Third
526	Camden and Sharp Streets.....	January 18	Second	Third
156	Broadway and Thames Streets.....	February 9	Second	.....
26	Madison and Gay Streets.....	February 19	Second	Third
414	Howard and German Streets.....	February 26	Second	Third
141	President Street and Canton Avenue.....	May 1	Second	.....
613	Hughes and Covington Streets.....	May 2	Second	.....
123	Pratt and Gay Streets.....	May 16	Second	Third
248	Holliday and Bath Streets.....	June 13	Second	.....
248	Holliday and Bath Streets.....	June 13	Second	Third
258	Horner's Factory, Chew and Ensor Streets.....	June 17	Second	Third
123	Pratt and Gay Streets.....	June 26	Second	Third
525	Pratt and Hanover Streets.....	July 12	Second	.....
131	Buchanan's Wharf and Sugar Refinery.....	July 15	Second	Third
248	Holliday and Bath Streets.....	July 18	Second	Third
184	Boston Street and Harris' Creek.....	July 21	Second	.....
123	Pratt and Gay Streets.....	July 30	Second	Third
415	Baltimore and Eutaw Streets.....	August 2	Second	Third
521	Camden and Charles Streets.....	August 4	Second	Third
61	Light and Lee Streets.....	September 1	Second	.....
513	Sharp and Lombard Streets.....	September 22	Second	Third
424	Lexington and Fremont Streets.....	December 1	Second	.....
134	Concord Street and Eastern Avenue.....	December 5	Second	.....
134	Concord Street and Eastern Avenue.....	December 6	Second	Third

CASUALTIES.

COMPANIES.	POSITION.	NAME.	DATE.	Box.	Number of days off Duty.	INJURY.
Engine Co. No. 1.	Chief En'gr.	John M. Hennick	August 4.....	521	119 days.	Left side cut open and three ribs broken.
" " 2.	Substitute.	Albert Oelman...	August 4.....	521	1	Hand cut.
" " 2.	Fireman.	Charles Romoser.	May 27.....	534	21	Hand mashed.
" " 2.	Captain.	John J. Ledden.	July 5.....	516	32	Leg injured leav'g carriage.
" " 2.	Fireman.	Henry Hannel.	July 29.....	516	3	Overcome with heat.
" " 3.	Fireman.	Martin Kirby....	February 25.	414	28	Shoulder sprained.
" " 3.	Fireman.	W. T. Pasterfield	May 31.....	153	2	Eyes injured by smoke.
" " 3.	Substitute.	Lewis Schiwin....	July 15.....	131	7	Hand cut.
" " 3.	Asst. En'gr	Par'k F. Moriarty	August 2.....	415	8	Leg scalded by steam.
" " 3.	Fireman.	John R. Battee.	August 2.....	415	14	Knee cap fractured.
" " 5.	Fireman.	Julius Krauch....	June 13.....	248	57	Small bone left wrist brok'n
" " 5.	Fireman.	Clinton De Witt.	August 4.....	521	18	Right foot mashed.
" " 6.	Fireman.	Saml. McClaskey	April 18.....	413	4	Knee injured.
" " 6.	Fireman.	Oscar Healey.....	July 15.....	131	2	Right ankle cut.
" " 7.	Fireman.	John Gildea.....	January 12...	316	3	Back sprained.
" " 7.	Fireman.	Louis B. Scheive.	July 17.....	347	14	Hands burnt.
" " 8.	Fireman.	G. K. Chapman..	May 8.....	425	1	Head cut.
" " 8.	Fireman.	Owen W. Burgess	July 21.....	316	4	Arm sprained.
" " 8.	Engineman.	Michael Walsh...	July 29.....	514	42	Small bone in leg broken.
" " 9.	Substitute.	Wm. H. Cuddy...	June 17.....	258	9	Ankle sprained.
" " 10.	Fireman.	Jesse Keilholtz...	September 1..	61	12	Nail run in his foot.
" " 11.	Fireman.	James D. Daniels	September 7..	153	46	End of middle finger cut off.
" " 11.	Fireman.	Charles P. Nelson	September 7..	153	43	Little finger cut off.
" " 12.	Fireman.	James Catterton.	May 3.....	141	7	Ankle sprained.
" " 12.	Engineman	Michael Lyceett..	June 5.....	54	62	Foot mashed.
" " 13.	Fireman.	Lawrence Pistel..	January 12...	316	8	Back hurt & ankle sprain'd.
" " 13.	Fireman.	Julian Massine...	January 12...	316	34	Back hurt and head cut.
" " 13.	Substitute.	Thomas Bosley...	October 14...	365	47	Ankles spr'n'd decen'g pole

Hook & Ladder 1.	Substitute.	Benjamin Fry.....	July 15.....	131	20	Hands cut by glass.
"	Driver.....	John T. Mulligan	July 30.....	123	123	Right hand badly mashed.
"	"	Tillerman..	Charles Roif.....	December 11..	157	Leg broken below knee.
"	"	Ladderman Wm. H.	Quigley..	December 11..	312	Right shoulder dislocated.
"	"	Substitute.	William Eck.....	March 25.....	415	Foot cut.
"	"	Ladderman Andrew	German..	November 1..	18	Overcome by gas & smoke.
"	"	Ladderman George	Little.....	November 1..	18	Overcome by gas & smoke.
"	"	Captain....	James Kelly.....	January 12....	312	Right leg and small bone in left ankle broken.
"	"	Ladderman Geo.	Wohllebar..	January 12....	312	Arm and legs bruised.
"	"	Ladderman George	W. Allen..	January 12....	312	5 months. Body bruised & back spr'n'd
"	"	Substitute.	William Bredee..	January 12....	312	19 days. Body bruised & hand cut.
"	"	Ast. Tiller'n John	Gill....	January 27....	526	Left arm mashed.
"	"	Substitute.	William Power...	March 12.....	364	Foot cut.
"	"	Substitute.	John H. Six.....	August 11.....	327	Right hand cut.
"	"	Captain....	Albert Ramia.....	July 18.....	121	Head and face cut.
"	"	Substitute.	James Elliott....	June 13.....	248	Ankle sprained.

DEATHS.

The Department has been called upon to mourn the loss of five of its members during the past year.

NO. 12 ENGINE COMPANY.

Permanent fireman Herman Boreherding died on March 12th, of pneumonia and typhus fever ; he was 38 years of age and had been a member of the Department three years.

Captain William Schulte was killed at the fire on Pratt Street, on August 4th, by being caught under the falling wall of James D. Mason & Co.'s building which crushed in the adjoining building of Henderson, Laws & Co., when he was passing through it to get to where the pipe of his company was stationed. He was 32 years of age, and had been a member of the Department eight years.

NO. 2 HOOK AND LADDER COMPANY.

Captain Frederick Marston died on August 22d, of Bright's disease of the kidneys. He was 48 years of age, and had been a member of the Department seventeen years.

Ladderman John Wohllebar died on October 29th, of consumption. He was 34 years of age, and had been a member of the Department three years.

NO. 5 ENGINE COMPANY.

Fireman Julius O. Krauch died on November 24th, of a cancer in his stomach. He was 53 years of age,

and had been a member of the Department fifteen years.

CASUALTIES.

Number of days members were off duty from injuries received.

No. 1 Engine Company members off.....	1 day.
No. 2 Engine " " "	56 "
No. 3 Engine " " "	59 "
No. 4 Engine " " "	None.
No. 5 Engine " " "	75 "
No. 6 Engine " " "	6 "
No. 7 Engine " " "	17 "
No. 8 Engine " " "	47 "
No. 9 Engine " " "	9 "
No. 10 Engine " " "	12 "
No. 11 Engine " " "	89 "
No. 12 Engine " " "	69 "
No. 13 Engine " " "	89 "
No. 1 Hook and Ladder Company members off,	143 "
No. 2 Hook and Ladder " " "	201 "
No. 3 Hook and Ladder " " "	3 "
No. 4 Hook and Ladder " " "	622 "
No. 5 Hook and Ladder " " "	25 "
Chief Engineer off.....	119 "
	1,642 "

LOCALITIES WHERE ENGINE COMPANIES ARE NEEDED.

At several fires that occurred during the past year, it has been demonstrated—what I have called attention to for several years in the annual reports—that the department is too small to successfully combat fires when they occur in large buildings, and the force left in reserve is so small, consisting of only two engines and one hook and ladder company, that should two large fires occur at the same time, the loss might amount to millions of dollars. There has been no increase in the number of engine companies since No. 13 Engine Company was organized in 1876. There should be three more engine companies. One to be located in the western section of the city, to protect the new built-up territory in the western and south-western sections. The money has been appropriated to build a house for an engine company in this locality.

An engine company should be located in the vicinity of Liberty and Lombard streets, as this would be near the most valuable warehouse property in the city; and being on top of the hill, would be preferable to the site on Balderson street, recommended in the reports of 1885 and 1886. During the past twelve years there has been a great change in the style of buildings in the business portion of the city, on Sharp, Pratt, Lombard, German, Paca, Eutaw, Howard, Liberty, Hanover and Charles streets, where there were mostly dwelling houses, are now built up with large warehouses, from five to eight stories in height, and many of them are

over two hundred feet in depth, running back to narrow alleys; with buildings of the same kind in the rear. There has been no increase in the number of companies in the centre of the city since the Department was organized, twenty-nine years ago, and as values are constantly increasing, it will presumably increase the number of fires and add to the labor of fire protection. The distance from No. 2 Engine House, on Barre street, to No. 4 Engine House, on Lexington street, is thirteen squares; and from No. 1 Engine House, on Paca street, to No. 3 Engine House, on Lombard street, is twenty squares; and this large unprotected space contains the most valuable, as well as the most inflammable property.

Another engine company should be located in the vicinity of Charles Street Bridge, as this locality is a long distance from the nearest engine company, and is closely built up; mostly with first-class dwellings. There has been no fire apparatus placed in this section since the Department was organized,

CHEMICAL ENGINES.

I would again respectfully call your attention to the urgent necessity of purchasing chemical engines and placing them in service as an adjunct to the hook and ladder companies. I would recommend single tank engines, of one hundred gallons capacity, as they require only one horse; and the services of two men to operate them. The experience of chemical engines for extinguishing fires in their incipiency has proved successful wherever they have been tried. The hose being small

and light, can be carried quickly to the top stories of the highest buildings, where it would take considerable time to carry up the heavy hose; and when large fires occur, we could, in addition to the steam engines, have the chemical engines to protect adjacent property; which would be endangered by sparks, which sometimes communicate fire to buildings squares away, and in such cases the chemical engines carrying their own material for extinguishing fires, could be more available.

FIRE EXTINGUISHERS.

During the past twelve months, the five gallon fire extinguishers have been used at fires 936 times, and the fifteen gallon fire extinguishers have been used 343 times, discharging 9,825 gallons of the solution. A great number of small fires were extinguished by using them.

FIRE BOAT.

Fires are frequently occurring—which shows the importance of affording protection to the large amount of property along the water front, which consists of lumber yards, factories, covered piers, storage warehouses, and grain elevators; and a great deal of this property is so situated, that the apparatus we are provided with cannot render sufficient service, as they can only work on the fire from the land side, and when fires occur on steamboats or other vessels lying out from the wharves, we can do nothing to assist them, and have to depend on what assistance the steam tug boats Convoy and Transfer, belonging to the Baltimore and Ohio Railroad

Company, can give us. As these boats are fitted up with powerful pumps, which are capable of throwing two large streams of water, being intended to protect their valuable property at Locust Point and at wharves on the north side of the harbor. Nearly all the large cities have fire boats to protect property along their water fronts. New York City have two; Boston, Brooklyn, Chicago and Buffalo have one each. This city has a water front ten miles in length. The largest fires that occurred during the past year were near the docks, and at two of these fires, the burning of the Hominy Mill and Gambrill's Flour Mill, situated on Buchanan's wharf, the steam tug Convoy rendered valuable assistance; and at the burning of the Bark and Extract Mills of J. S. Young & Co., foot of Elliott street, Canton, the steam tug Convoy towed out three vessels that were lying at the wharves, and with their two powerful streams prevented the two buildings on the east side of the fire where our Department could not get to from burning; and if we had had their assistance at the large fire on Pratt street, on August 4th, where several large buildings were burned, they could have rendered effective service.

I would recommend that a suitable steamboat, fitted up with a pump, similar to what is used on fire boats at the cities above mentioned should be procured, so that the Department may be in a condition to successfully cope with fires that occur on the water front; and that some arrangement should be made to pay the crews of the boats Convoy and Transfer when they render assist-

ance at fires. The Board of Trade in their report of October 4th, speak of the necessity for a fire boat.

NEW COMPANIES.

No. 5 Hook and Ladder Company was organized and placed in service last May, in the new house on Aisquith near Oliver street.

No. 6 Hook and Ladder. The house for this company has been completed, and is ready for the company. It is situated on the corner of Hanover and Ostend streets. When this company goes in service it will take all the long runs to the Locust Point boxes from No. 2 Hook and Ladder Company, and leave them to protect the mercantile district near to where they are located.

No. 14 Engine Company. An ordinance was passed appropriating fourteen thousand dollars to purchase a lot and build a house for this company. A lot was purchased on Hollins, near Monroe street, it is sixty feet front and 132 feet in depth, but the house has not yet been completed. I would respectfully recommend that an additional appropriation be asked for to build a double two-story brick stable on the rear part of the lot, with four stalls in one part for reserve horses, and five stalls in the other part; two of them to be large box stalls, for sick and disabled horses. A stable of this kind is required, and will save considerable expense to the Department, as we have no suitable quarters to send horses to when they are unfit for service.

PERMANENT MEMBERS.

Engine Companies 1, 2, 3 and 4 should be composed of all permanent members. They now have five permanent and seven call members. The importance of having the members permanent at the houses of these central companies is frequently demonstrated, as they being located in the commercial part of the city, where fires are frequently occurring, are called upon to respond to the largest number of fires, and perform the greatest amount of service; and having only five permanent members, when one of them is away to his meals or off duty on his holiday, (each member having one day a month), the companies are delayed when they are required to go in service at fires during the day when the call members are at work, as there are not men enough present to handle the hose; especially if they are required to go to the upper stories of high buildings, or use two lines of hose. As the call members are scattered over the city pursuing their daily avocations to earn a livelihood; as many of them have families and cannot live on four hundred dollars a year. Each of these companies should have eleven permanent members, one of them to be Captain; and the other engine companies should each have another permanent member.

The Captains of the Hook and Ladder Companies should be permanent members, as the trucks with their ladders are regarded as a life-saving apparatus, and should a fire occur in the upper stories of some of the manufacturing establishments where there were peo-

ple, and escape was cut off by the stairways, they would have to depend on the ladders, and if the Captain of the company was absent, there would likely be some confusion and consequent delay in raising the ladders; which might cause serious results. Making the captains permanent could be done at the small additional expense of one hundred dollars to each company, by dropping one of the permanent members—they now have six, and making him a call member. This will save four hundred dollars, and would give the captains a salary of one thousand dollars; as they now, as call members, receive five hundred dollars; and if these changes are made and the additional companies organized, the Department, will be in condition to meet any emergency that is likely to occur.

OFFICERS.

When the Paid Fire Department was organized, which was in February, 1859, the city was divided into two districts, called the Eastern and Western Districts. Calvert Street being the dividing line between them; and two Assistant Engineers were appointed—one for each district, since when, owing to the great amount of property built in the Western section, the dividing line between the districts was extended to Charles Street, but there has been no increase in the number of Assistant Engineers since the department was organized, and when large fires occur and all the available force is called into service, the necessity for more officers is shown, as it is impossible to direct the operations of

the companies working on four sides of a fire with two officers, and to guard against there being no commanding officer to take charge in case of two fires occurring at the same time—and this has happened several times during the past year—one of the Assistant Engineers is required to remain in his district when large fires occur away from the centre of the city. There should be two more Assistant Engineers appointed, making four. The city divided into four districts, and the companies located in each district to form a battalion, and one of Assistant Engineers to have charge of each district and battalion; and that the Assistant Engineers be required to reside in the district they have charge of, and that the term Assistant Engineers be changed to Chiefs of Battalions.

The bounds of the districts to be as follows :

FIRST DISTRICT.

Beginning at the north boundary, east of the centre of Caroline Street, to Lombard Street, south of the centre of Lombard Street to Jones' Falls, down Jones' Falls to the water line, and along the water line to the eastern boundary of the city.

SECOND DISTRICT.

Beginning at the north boundary, west of the centre of Caroline Street, to Lombard Street, north of the centre of Lombard Street to Jones' Falls, along the west side of Jones' Falls to the water line, along the water line to Calvert Street, and east of the centre of Calvert Street to the north boundary.

THIRD DISTRICT.

Beginning at the north boundary, west of the centre of Calvert Street to Baltimore Street, and north of the centre of Baltimore Street to the western boundary.

FOURTH DISTRICT.

Beginning at the western boundary, south of the centre of Baltimore Street, to Calvert Street, west of the centre of Calvert Street to the water line, and along the water line to Fort McHenry.

INFLAMMABLE OILS.

There are warehouses in the business parts of the city where large quantities of inflammable oils are stored, and should a fire occur, there might be explosions similar to what has occurred in other cities during the past year, causing a serious loss of life and property, and the burning oil would run for squares in the gutters, setting fire to the property in its course ; and at fires of this kind the department is powerless, for the water that is thrown on the burning oil causes it to burn fiercer and extend further. An ordinance should be passed similar to what there is in New York, Cincinnati and other cities, to regulate the storage of these oils.

SHUTTERS AND IRON BARS ON WINDOWS.

I desire to call attention to the necessity of placing iron shutters, or wooden shutters battened and covered with tin on both sides, with cast iron hinges, on the

rear and sides of all warehouses that extend back to narrow streets or alleys ; (if Parker & Co's building on South Charles Street had been protected with shutters, I do not think it would have burned at the fire on August 4th) the fastenings of the shutters above the first story should be constructed so that they could be opened from the outside, so as not to interfere and delay the Department when it is necessary to get in the buildings, and all iron bars on the inside or outside of windows should be removed.

NEW FIRE ALARM SIGNAL STATIONS.

Twenty (20) new signal boxes have been added during the past year ; they are numbered and located as follows :

- 122—Sun Office, Baltimore and South Streets.
- 158—Bond and Thames Streets.
- 165—Broadway and Baltimore Street.
- 237—Washington and Jefferson Streets.
- 238—Chew and Caroline Streets.
- 259—Biddle and Valley Streets.
- 273—Oliver and Gay Streets.
- 317—St. Paul and Centre Streets.
- 328—Mosher and Division Streets.
- 365—Pennsylvania Avenue and Greenwillow Street.
- 367—Myrtle Avenue and Hoffman Street.
- 368—Clinton Avenue and Mulberry Street.
- 427—Lexington and Greene Streets.
- 428—Lexington and Schroeder Streets.

- 436—Lombard and Paca Streets.
- 464—South-Western Police Station.
- 474—Fulton and Lafayette Avenues.
- 475—Edmondson Avenue and Mount Street.
- 519—Ostend and Ridgely Streets.
- 614—Johnston and Hamburg Streets.

The total number of signal boxes for sending in alarms for fires is two hundred and thirty-three (233) six of which are private boxes and are placed inside of houses.

FIRE-ALARM BOXES WITH KEYLESS DOORS.

The following fire-alarm boxes have been altered and keyless doors put on them.

- 12—Baltimore and Gay streets.
- 13—Pratt Street Bridge.
- 121—Exchange Place and Commerce street.
- 122—Sun Office, Baltimore and South streets.
- 123—Pratt and Gay streets.
- 141—Canton avenue and President street.
- 21—Saratoga and Gay Streets.
- 24—No. 6 Engine House, Gay and Ensor streets.
- 3—No. 4 Engine House, Lexington street.
- 31—Calvert and Pleasant streets.
- 318—Charles and Barnet streets.
- 4—Baltimore and Calvert streets.
- 41—Fayette and St. Paul streets.
- 412—Baltimore and Hanover streets.
- 413—Salvage Corps, Liberty and Fayette streets.

- 414—Howard and German streets.
- 415—Baltimore and Eutaw streets.
- 418—Howard and Lexington streets.
- 422—Baltimore and South streets.
- 5—German and Light streets.
- 51—Light and Pratt streets.

FIRE-ALARM BOXES THAT SHOULD BE ALTERED
TO KEYLESS DOORS.

14, 128, 156, 127, 212, 241, 248, 312, 314, 316, 317, 42, 43, 416, 417, 419, 423, 431, 52, 523, 61.—Twenty boxes.

REPAIRS MADE TO THE HOUSES OF THE DEPARTMENT
BY THE INSPECTOR OF BUILDINGS.

The sleeping rooms at Nos. 11 and 12 Engine Houses, and at No. 4 Truck House have been papered and the wood-work painted. The ceiling of the first story at No. 2 Truck House was wainscoted. A sliding pole was put up in No. 1 Engine House. At No. 1 Truck House another sliding pole was put up, making three; terra cotta drain pipes laid from the house to Jones' Falls; sleeping room papered and wood-work painted.

At No. 3 Engine House, a new floor was laid in the engine room, the sides of the room wainscoted four feet high, ceiling and walls whitecoated, all wood-work painted, and a terra cotta drain pipe laid to Jones' Falls. At No. 7 Engine House four horse stalls were put up in the engine room, they are placed on each side of the apparatus, so that the horses will stand near the

pole on the side where they work; new floor in engine room, new tin roof on the building, stairway that leads to second story altered, door on Druid Hill avenue closed up, and a door made on Eutaw street; brick wall between the sleeping room and loft of stable taken down and a studding partition put up in its place, so as to take the weight off the girder over the open space between the engine room and the room formerly used for the stable; sleeping room papered and all the wood-work painted. At No. 9 Engine House another window was made in the wall on the east side, and all the wood-work painted. At No. 5 Truck House another horse stall was made in the truck room, making three stalls.

All other necessary repairing has been done, and the houses are in good condition.

ALTERATIONS AND REPAIRS REQUIRED TO THE HOUSES.

At No. 2 Engine House the horse stalls should be altered so as to make them of equal width, as they are now, two of the stalls are so wide that the horses turn around in them, and one stall is so narrow that the horse cannot lie down; a back entrance should be made to the stable from Welcome alley, it can be done at a small expense; and the drying house for the hose made in the steeple, so that they can hang their full length. The drying house for the hose is now situated in the stable behind the horses, and the ammonia arising injures the hose, especially the fabric. At No. 3 Engine House a piece of ground in the rear should be pur-

chased, so as to make an outlet from the back part of the engine house to the alley. The horse stalls could then be placed in the engine room, alongside of the apparatus; similar to those at No. 4 Engine House.

Deaths, Resignations, Dismissals, Appointments, Transfers and Promotions.

COMPANIES.		Deaths.	Resignations.	Dismissals.	Appointments.	Transfers.	Promotion.
Engine Company No. 1.....	...	...	...	...	...	...	...
Engine Company No. 2.....	...	...	1	...	1	...	...
Engine Company No. 3.....	...	...	...	...	...	2	...
Engine Company No. 4.....	...	...	...	...	...	...	...
Engine Company No. 5.....	1	...	...	...	11	1	...
Engine Company No. 6.....	...	...	...	...	...	...	...
Engine Company No. 7.....	...	...	...	...	...	...	...
Engine Company No. 8.....	...	...	1	...	1	...	...
Engine Company No. 9.....	...	...	...	...	...	...	...
Engine Company No. 10.....	...	...	...	...	...	...	...
Engine Company No. 11.....	...	...	1	...	1	...	...
Engine Company No. 12.....	2	...	1	...	3	...	2
Engine Company No. 13.....	...	...	1	...	1	...	...
Hook and Ladder Co. No. 1..	...	...	1	...	3	2	3
Hook and Ladder Co. No. 2..	2	...	...	1	4	2	...
Hook and Ladder Co. No. 3..	...	...	...	...	...	...	...
Hook and Ladder Co. No. 4..	...	...	...	...	...	...	...
Hook and Ladder Co. No. 5..	...	...	...	...	8	6	3
		5	6	1	24	13	8

There are seven disabled members who are pensioned, receiving each four hundred dollars per annum.

TABLE A.

Showing the number of Box Alarms by Districts for the year 1887.

Month.	East of Charles Street.	West of Charles Street.	Total.
January	19.....	19.....	38
February	7.....	9.....	16
March	10.....	10.....	20
April.....	17.....	11.....	28
May	12.....	14.....	26
June	20.....	12.....	32
July.....	25.....	17.....	42
August	8.....	5.....	13
September.....	12.....	15.....	27
October	6.....	16.....	22
November	9.....	11.....	20
December	8.....	21.....	29
	153	160	313

There were 153 alarms from boxes in the eastern district, which comprises all that part of the city east of the centre of Charles street from the north boundary to the centre of Lee street, and 160 alarms from boxes in the western district, which comprises all that part of the city west of the centre of Charles street from the north boundary to the centre of Lee street down Lee street to the water front and along the water line to the western boundary.

TABLE B.

Showing the number of times companies have responded to fires, and transferred to the houses of other companies, number of feet of hose laid at fires, and number of ladders used at fires.

COMPANIES.	Number of Times Responded to Fires.	Number of Times Transferred on Alarms.	Number of Feet Hose Laid at Fires.	Number of Ladders Used at Fires.
No. 1 Engine Company.....	119	.....	31,300	.....
No. 2 Engine Company	123	.....	38,600	.....
No. 3 Engine Company.....	110	.....	37,450	.....
No. 4 Engine Company	100	.....	50,650	.....
No. 5 Engine Company	101	31	36,100	.....
No. 6 Engine Company	105	.....	30,850	.....
No. 7 Engine Company	112	26	34,950	.....
No. 8 Engine Company	97	34	23,750	.....
No. 9 Engine Company	114	38	26,400	.....
No. 10 Engine Company	103	43	23,600	.....
No. 11 Engine Company	70	.....	25,750	.....
No. 12 Engine Company	48	50	21,400	.....
No. 13 Engine Company	66	25	27,600	.....
No. 1 Hook and Ladder Co..	105	17	.....	222
No. 2 Hook and Ladder Co..	141	.....	.....	254
No. 3 Hook and Ladder Co..	89	71	.....	146
No. 4 Hook and Ladder Co..	82	78	.....	146
No. 5 Hook and Ladder Co..	65	46	.....	91
			408400	859

Over 77 miles of hose and 839 ladders.

TABLE C.

Showing number of alarms monthly for the year 1887.

Month.	Box.	Telephone and Silent.	Total.
January	38.....	21.....	59
February	16.....	15.....	31
March	20.....	18.....	38
April.....	28.....	14.....	42
May	26.....	14.....	40
June	32.....	15.....	47
July.....	42.....	23.....	65
August	13.....	10.....	23
September	27.....	2.....	29
October	22.....	7.....	29
November	20.....	22.....	42
December.....	29.....	22.....	51
	313	183	496

TABLE D.

Number of fires on each day of the week for the year 1887.

Sunday.....	40
Monday	48
Tuesday	47
Wednesday	45
Thursday	35
Friday	46
Saturday	52

TABLE E.

Showing working time of the engines and service of the hook and ladder trucks at fires.

	ENGINES.		MEMBERS.	
	Hours.	Min.	Hours.	Min.
No. 1 Engine Co. in service.....	92	25	271	...
No. 2 Engine Co. in service.....	115	35	319	05
No. 3 Engine Co. in service.....	100	20	259	40
No. 4 Engine Co. in service.....	106	15	252	19
No. 5 Engine Co. in service.....	109	10	289	40
No. 6 Engine Co. in service.....	78	10	253	30
No. 7 Engine Co. in service.....	78	30	252	...
No. 8 Engine Co. in service.....	88	30	353	45
No. 9 Engine Co. in service.....	74	40	305	10
No. 10 Engine Co. in service.....	127	41	329	41
No. 11 Engine Co. in service.....	108	30	404	10
No. 12 Engine Co. in service.....	58	10	301	30
No. 13 Engine Co. in service.....	90	...	298	...

	HOOK AND LADDER TRUCKS.		MEMBERS.	
	Hours.	Min.	Hours.	Min.
No. 1 Hook & Ladder Co. in service	119	...	246	30
No. 2 Hook & Ladder Co. in service	124	...	295	...
No. 3 Hook & Ladder Co. in service	176	...	376	54
No. 4 Hook & Ladder Co. in service	189	...	436	36
No. 5 Hook & Lodder Co. in service	68	...	184	...

TABLE F.

Losses monthly, year ending December 31, 1887.

Month.		
January	\$	58,735 21
February.....		178,969 55
March		23,632 25
April		20,212 45
May.....		22,677 77
June.....		29,656 12
July		409,171 32
August.....		288,956 56
September.....		74,195 06
October		12,964 26
November		20,057 99
December		18,615 72
		\$1,157,844 26
Loss, silent fires.....		4,515 00
Total		1,162,359 26

TABLE G.

Showing the number of fire-alarm boxes that each company responds to on the first, second and third alarm.

COMPANIES.	First Alarm.	Second Alarm.	Third Alarm.	Total Number of Boxes.
Engine Company No. 1.....	54	113	41	208
Engine Company No. 2.....	73	105	28	206
Engine Company No. 3.....	59	63	52	174
Engine Company No. 4.....	59	73	53	185
Engine Company No. 5.....	53	33	96	182
Engine Company No. 6.....	75	65	81	221
Engine Company No. 7.....	78	115	28	219
Engine Company No. 8.....	81	47	52	180
Engine Company No. 9.....	70	30	45	145
Engine Company No. 10.....	71	62	65	198
Engine Company No. 11.....	37	14	3	54
Engine Company No. 12.....	32	12	68	112
Engine Company No. 13.....	59	25	30	114
Hook and Ladder Company No. 1.....	57	52	82	191
Hook and Ladder Company No. 2.....	86	66	19	171
Hook and Ladder Company No. 3.....	52	13	21	86
Hook and Ladder Company No. 4.....	68	79	15	162
Hook and Ladder Company No. 5.....	37	22	90	149

FIRE PLUGS AND WATER MAINS.

If there were larger water mains and more fire plugs along the water front,—on the wharves south of Pratt street, at the lower end of West Falls avenue, and along Boston street, they would be of great service to the Department, and when fires occur the apparatus could get to work much quicker than when they have to work at the docks; as they are generally piled up with merchandise, and at most of the wharves there is a raised platform, which causes great delay in getting the engines near enough to draft water, and where they cannot get fresh water to feed the boilers of the engines the dirty and brackish water they are drafting causes the boilers to foam and lose steam, when they cannot do effective service. Besides, it injures the boiler and causes the flues to burn out, this occurred to two of the engines that worked at the large fire on Boston street, (Canton). And there are other parts of the city where the mains are too small, and when large fires occur and eleven engines are called into service they cannot get a supply of water without taking plugs some distance from the fire and laying out long lines of hose; when they are required to carry a great amount of pressure to overcome the loss from friction and do the required service which is injurious to the hose. During the past year 375,582 feet, or seven miles; and six hundred and twenty-two feet of large water mains have been laid on the following streets: On Biddle street, from Bond street to Park avenue, a 20 inch pipe.

On Bond street, to Biddle street, to Preston street, to

Eager street, to Chester street, to Fayette street,—a 10 inch pipe.

On Bank street and Central avenue to Exeter street, to Eastern avenue, to President street, to Aliceanna street,—a 10 inch pipe to increase the supply of water in the lumber district. On Fort avenue to the Baltimore and Ohio Railroad Company's bridge,—a 20 inch pipe.

On Hull street from Fort avenue to the water, a 10 inch pipe. On Hill street, from Hanover street, to Light street, to Hughes street, to Covington street, to Cross street, to Belt street, to Jackson street, to Fort avenue,—a 10 inch pipe. On Camden street, from Hanover street, to Light street,—a 10 inch pipe. On Charles street, from Camden street, to Barre street,—an 8 inch pipe.

Starting from Biddle street and Greenmount avenue, to Lanvale street, to Charles street, to Townsend street, to Maryland avenue, to North avenue,—a 12 inch pipe. On Lanvale and Berkley streets,—a 12 inch pipe.

FIRE PLUGS RECENTLY ERECTED AND SIZE OF WATER MAIN

THEY ARE ATTACHED TO.

Eutaw and Conway streets.....	20 inch
Howard and Pratt streets.....	10 “
Howard and Camden streets.....	10 “
Howard and Conway streets.....	10 “
Camden street, near Light st., two plugs.....	10 “
Camden and Charles streets.....	10 “
Charles street, bet. Camden and Conway sts...	8 “

Charles street, bet. Conway and Barre sts.....	8 inch
Hughes and William streets.....	10 “
Hughes and Henry streets.....	10 “
Montgomery and Covington streets.....	10 “
Cross and Covington streets.....	10 “
Fort Avenue and Jackson street.....	20 “
Fort Avenue, east of Garrett street.....	20 “
Fort Avenue, opp. B. & O. Tobacco Warehouse.	20 “
German and Eutaw streets.....	10 “
German and Liberty streets.....	10 “
Sharp street, bet. Baltimore and German sts....	10 “
Lombard and Paca streets.....	20 “
Baltimore street, opposite McClellan's alley....	10 “
Calvert and Pratt streets.....	10 “
Front street, near Lombard street.....	10 “
Leadenhall and West streets, two plugs.....off	20 “
Lombard and Front streets, two plugs.....	“ 10 “
Front and Plowman streets.....	“ 10 “
Hull street, bet. Nicholson st. and the Dock...	“ 10 “
Greenmount avenue and Pinkney place.....	“ 12 “
Lanvale and North streets.....	“ 12 “
Townsend street and Morton alley.....	“ 12 “
Bond and Oliver streets.....	“ 6 “
Philadelphia Road and Harford Run.....	“ 6 “
Federal and Caroline streets.....	“ 6 “
Payson street and Wilkens avenue.....	“ 4 “
Payson and Ramsey streets.....	“ 6 “
Townsend and Bond streets.....	“ 6 “
Townsend and Caroline streets.....	“ 6 “
Preston street and Hargrove alley.....	“ 6 “
Biddle st., bet. St. Paul st. & Hargrove alley.	“ 20 “

Eager and Calvert streets.....	“	6 inch
Chase and Bond streets.....	“	20 “
Ann and Eager streets.....	“	10 “
Chew and Chester streets.....	“	10 “
Biddle street and Morton alley.....	“	20 “
McEldery and Chester streets.....	“	10 “
Biddle and Caroline streets.....	“	20 “
Chester, near Fayette street.....	“	10 “
Bond, near Biddle street.....	“	10 “
Valley and Biddle streets.....	“	20 “
Monument street and Park avenue.....	“	10 “
Greenmount avenue and Preston street.....	“	20 “
Biddle, bet. Somerset st. and Central ave.....	“	20 “
Exeter st., midway bet. Canton & Eastern aves.	8	“
Eastern avenue and Albemarle street.....	10	“
President street and Eastern avenue, 2 plugs...	10	“
President street and Canton avenue, 2 plugs.....	10	“
President and Aliceanna streets, 2 plugs.....	10	“
President and Lancaster streets.....	10	“
High and Lancaster streets.....	10	“
Exeter and Lancaster streets.....	10	“
Pratt street, bet. Gay and Frederick streets, south side.....	10	“
pratt street and Spears wharf.....	8	“
Gambrill's Patapsco Flour Mill, Smith's dock...	10	“
Smith's dock, near Gambrill's Flour Mill.....	8	“
Total number of Plugs put up during the past year '72, making the number now in service,		1,076

Respectfully submitted,

JOHN M. HENNICK,

Chief Engineer.

Location of Companies

—AND—

Companies' Supplies.



ENGINE COMPANY No. 1,

Located on Paca Street, north of Fayette.

NAMES.	AGE.	POSITION.	TIME OF SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Chas. E. Freeburger...	40	Engineman	12 years...	111 Pearl street.....	Machinist.
Thos. H. Meushaw.....	31	Ass't Eng'n	3 "	13 Pearl street.....	"
Lewis J. Fresh.....	44	Driver.....	16 "	107 Pearl street.....	Driver.
Charles Minton.....	34	Fireman.....	8 "	206 Jasper street.....	Cigarmaker.
Charles H. Baker.....	35	"	8 "	410 Pine street.....	Scalemaker.
<i>Members at Call.</i>					
Jacob H. Hayward....	64	Captain.....	25 years...	631 W. Fayette street.	Painter.
Edward R. Addison...	40	Fireman...	13 "	228 Amity street.....	Machinist.
John J. Robinson.....	34	"	4 "	1008 Milton Place.....	Carpenter.
John H. Osing.....	39	"	3 "	104 Pearl street.....	Tinner.
George W. Minton.....	26	"	2 "	102 N. Paca street.....	Packer.
William A. Meushaw.	35	"	1 "	332 S. Poppleton st....	Mariner.
Philip L. Brady.....	25	"	1 "	867 Ramsay street.....	Iron Worker.

ENGINE COMPANY No. 2.

Located on Barre Street, west of Sharp Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Thomas E. Wheatly.	47	Engineman	19 years...	640 Lee street.....	Machinist.....
Sam'l W. Stansbury.	36	Ass't Eng'n	12 "	406 Hanover street....	Machinist.....
John E. Kirby.....	25	Driver.....	3 "	924 Columbia avenue.	Driver.....
Alfred Squires.....	34	Fireman.....	13 "	1109 Race street.....	Carpenter.....
Charles H. Hammel...	45	"	12 "	406 S. Sharp street.....	Plumber
<i>Members at Call.</i>					
<i>Occupation.</i>					
John J. Leddson.....	37	Captain	10 years...	713 Ramsey street.....	Clerk
Thomas S. Rodenhi...	51	Fireman	28 "	504 S. Howard street.	Chairmaker.....
Charles Romoser.....	50	"	18 "	608 S. Sharp street....	Gasfitter
James Humes.....	44	"	19 "	137 W. Lee street.....	Glasscutter
Charles Causey.....	34	"	10 "	523 S. Charles street...	Canmaker
Louis Abel.....	35	"	1 "	821 Little Green street	Baker
William Eckert.....	29	"	1 "	715 Little Green street	Brushmaker

ENGINE COMPANY No. 3.

Locatea on east Lombard Street near High Street.

FIRE DEPARTMENT.

779

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Thos. H. Humphreys.	44	Engineman	15 years...	112 S. Exeter street....	Machinist.
Patrick F. Moriarity.	37	Ass't Eng'n	13 "	910 E. Lombard street	Machinist.
John F. Pierce.....	44	Driver.....	12 "	6 N. Exeter street.....	Driver.
Wilbur F. Clark	26	Fireman.....	1 "	1140 E. Lombard street	Clerk.
Wm. F. Pasterfield....	33	"	6 "	1138 E. Lombard street	Plumber.
<i>Members at Call.</i>					
Richard A. Lindsay	44	Captain	15 "	909 Stiles street.....	Paperhanger.
James L. Lindsay	46	Fireman.....	9 "	230 S. Exeter street....	Paperhanger.
Allen Orem	37	"	6 "	904 E. Lombard.....	Painter.
Wm. R. E. L. Mears.	27	"	4 "	603 N. Fremont street.	Undertaker.
George C. Hodges.....	44	"	5 "	10 S. Central avenue.	Painter.
Wm. F. Dauterick.....	30	"	4 "	108 S. Ann street.....	Driver.
John R. Battee.....	37	"	14 "	1423 E. Lombard street	Bricklayer.

Occupation.

ENGINE COMPANY No. 4.

Located on Lexington west of North Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Frank K. Conway.....	36	Engineman	14 years...	208 N. Front street...	Machinist.
John Gaffney	32	Ass't Eng'n	11 " ..	407 N. Paca street....	Machinist.
Andrew J. Connelly...	32	Driver.....	9 " ..	325 Pearl street.....	Driver.
Henry Bierman.....	25	Fireman....	1 " ..	7 S. Green street....	Stonecutter.
Constant Seibert.....	36	"	6 " ..	1101 Laurel street	Hostler.
<i>Members at Call.</i>					
George W. Horton.....	42	Captain	25 " ..	404 Chesnut.....	Wireworker.
George W. Bentz.....	47	Fireman....	19 " ..	221 Park avenue.....	Mess.to B'd Com.
James Allen.....	41	"	15 " ..	610 Barre street.....	Printer.
Earnest Schultz.....	35	"	10 " ..	1347 Holland street....	Tinner.
Joseph H. Daily.....	35	"	7 " ..	14 Watson street.....	Stonecutter.
Wilmer West.....	44	"	18 " ..	524 N. High street....	Tinner.
James Burke.....	36	"	4 " ..	606 Ensor street.....	Morocco Fin'r.

ENGINE COMPANY No. 5,

Located on Ann Street, near Gough Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Frederick L. Nelson...	40	Engineman	13 years...	404 S. Ann street.....	Machinist.
John Linderman	40	Ass't Eng'n	7 " "	2036 Bank street.....	Machinist.
Henry Murphy.....	36	Driver.....	8 " "	254 S. Ann street.....	Sugar Refiner.
Wm. B. Baker	30	Fireman	6 " "	208 S. Ann street.....	Brass Finisher.
Wm. M. Burns.....	32	" "	7 " "	1730 Gough street.....	Canmaker.
<i>Members at Call.</i>					
<i>Occupation.</i>					
William G. Miller.....	64	Captain	19 years...	1627 Gough street	Carpenter.
James F. Reilly.....	35	Fireman ...	8 " "	1626 E. Lombard st....	Painter.
John H. Reitz.....	25	" "	1 month.	1841 E. Lombard st....	Merchant.
William T. Disney....	38	" "	13 years...	252 S. Ann street.....	Bricklayer.
Benjamin Price.....	43	" "	8 " "	1608 E. Fayette street.	Coffee Roaster.
Charles E. De Witt....	37	" "	3 " "	15 S. Ann street.....	Carpenter.
James T. Pearl.....	31	" "	1 " "	434 Patterson Park av.	Tobacco Worker

ENGINE COMPANY No. 6.

Located at the intersection of Gay and Ensor Streets.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Mathew Mulligan.....	50	Engineman	17 years...	803 E. Eager street...	Machinist.....
Cornelius P. Kuhan...	42	Ass't Eng'n	8 "	812 Harford avenue...	Machinist.....
John Clark.....	34	Driver.....	3 "	514 Ensor street.....	Hostler
J. Oscar Healey.....	52	Fireman ...	27 "	1036 E. Monument st.	Carpenter.....
Laurence Blake.....	42	"	16 "	1006 Thompson street.	Painter
<i>Members at Call.</i>					
Bernard Shaw.....	59	Captain.....	12 years...	423 N. Exeter street...	Stonecutter.
George Mineburg.....	45	Fireman.....	16 "	218 N. Central avenue.	Barber
James Gallagher.....	38	"	7 "	231 N. Exeter street...	Plumber.....
Charles Betz.....	34	"	3 "	1113 Orleans street....	Boot & shoe mkr
F. C. H. Berger.....	31	"	2 "	517 Ensor street.....	Saloon keeper...
Samuel McClaskey....	40	"	1 "	408 E. Monument st.	Plasterer

Occupation.

ENGINE COMPANY No. 7.

Located on Eutaw Street corner of Druid Hill Avenue.

NAMES.	AGE	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Jacob S. Corns.....	35	Engineman	8 years...	729 N. Eutaw street...	Machinist.
Thomas S. Brown.....	28	Ass't Eng'n	2 "	448 W. Biddle street.	Machinist.
Francis B. Hart.....	38	Driver.....	2 "	1205 Division street....	Hostler.
William F. Morrow...	38	Fireman.....	10 "	726 N. Eutaw street...	Painter.
John J. Houck.....	37	"	8 "	704 N. Eutaw street...	Machinist.
<i>Members at Call.</i>					
George H. Houck.....	59	Captain.....	26 "	731 N. Eutaw street...	Railroad Agent.
John H. Gildea.....	61	Fireman.....	28 "	1018 N. Eutaw street...	Driver.
Henry Walker.....	40	"	14 "	907 Elm Place	Painter.
Louis B. Scheive.....	35	"	15 "	606 N. Eutaw street...	Paperhanger.
Samuel A. Seymour...	27	"	2 "	401 Druid Hill avenue	Canmaker.
William A. Larkins...	25	"	2 "	923 Ramsay street ...	Carpenter.

ENGINE COMPANY No. 8,

Located on Mulberry Street, east of Oregon Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Michael F. Walsh.....	36	Engineman	13 years...	1065 W. Lexington st.	Machinist.
John Conway.....	32	Ass't Eng'n	5 " ..	1065 W. Lexington st.	Machinist.
William J. Stewart...	37	Driver.	13 " ..	424 Arlington avenue.	Tinner.
G. R. Chapman.....	55	Fireman	16 " ..	933 Mulberry street....	Shoemaker.
—					
<i>Members at Call.</i>					
Edward C. Keyser.....	37	Captain.....	11 years...	633 Lanvale street....	Canmaker.
A. J. Walter.....	50	Fireman	16 " ..	800 Saratoga street	Cigarmaker.
Owen D. Burgess.....	50	"	16 " ..	933 Mulberry street....	Silverplater.
Frederick Johnston...	44	"	12 " ..	1010 Mulberry street....	Carpenter.
Charles Airey.....	36	"	3 " ..	380 Schroeder street...	Cigarmaker.
James Gill.....	41	"	8 " ..	531 Brune street.....	Molder.
Morris Rosenthal.....	26	"	6 months	1517 W. Baltimore st..	Paperhanger..

ENGINE COMPANY No. 9.

Located on Madison Street, East of Broadway.

FIRE DEPARTMENT.

785

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Daniel R. Rogers.....	41	Engineman	16 years...	1706 E. Madison street	Machinist.....
William H. Stanton...	39	Ass't Eng'n	10 "	907 N. Broadway.....	Machinist.....
Joseph P. Kelly.....	44	Driver.....	5 "	240 Albemarle street	Hostler
James McDevitt.....	45	Fireman....	16 "	1705 E. Madison street	Harnessmaker..
Lemuel Piercey.....	31	"	7 "	712 N. Caroline street	Laborer.....
<i>Members at Call.</i>					
David H. Macauley...	61	Captain.....	27 years...	1211 N. Eden street...	Painter
Solomon Uhlfelder ...	44	Fireman....	16 "	1807 E. Madison street	Huckster.....
Charles Fry.....	35	"	11 "	1607 E. Madison street	Huckster.....
William E. Burrier...	35	"	7 "	1803 E. Madison street	Laborer.....
John H. Cruse.....	55	"	8 "	809 Ensor street.....	Cigarmaker.....
Charles C. Neilson...	34	"	9 "	1816 E. Madison street	Bricklayer.

Occupation.

ENGINE COMPANY No. 10.

Located on Columbia Avenue, near Poppleton Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
John W. Walsh.....	38	Engineman	11 years...	1115 W. Baltimore st.	Machinist.
James Nugent.....	31	Ass't Eng'n	4 "	419 S. Poppleton st...	Machinist.
George W. Thorpe....	37	Driver.....	7 "	889 Lemmon street...	Hostler.
Jesse G. Keilholtz.....	42	Fireman.....	14 "	896 W. Lombard st...	Mantel Setter.
<i>Members at Call.</i>					
William R. Ward	43	Captain.....	14 "	124 S. Calhoun street	Carpenter.
Benjamin F. Seip.....	34	Fireman.....	7 "	1170 Bowen street.....	Plumber.
William Brady.....	33	"	5 "	847 Columbia avenue	Cigarmaker.
Samuel W. Marker....	37	"	7 "	206 Arlington avenue	Carpenter.
Jacob J. Brady.....	29	"	2 "	864 Columbia avenue	Cigarmaker.
Richard E. Disney, Jr.	28	"	3 "	1616 W. Franklin st...	Painter.
James Scott.....	33	"	2 "	128 W. Pratt	Trunkmaker.

ENGINE COMPANY No. 11.

Located on Eastern Avenue, Corner of Patterson Park Avenue.

FIRE DEPARTMENT.

787

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
John Calder.....	41	Engineman	17 years...	2108 Gough street.....	Machinist.
A. M. Minniegue	40	Ass't Eng'n	5 "	1935 Gough street.....	Machinist.
William H. Dunn	36	Driver.....	3 "	519 N. Paca street....	Hostler.
Thomas Kane	37	Fireman.....	5 "	2011 Pleasant alley....	Laborer.
<i>Members at Call.</i>					
Andrew Perry	60	Captain.....	26 "	2108 Gough street.....	Pattern Maker.
H. R. Seippel.....	38	Fireman.....	13 "	434 Patterson Park av.	Barber.
James D. Dannels.....	48	"	18 "	316 S. Chester street.	Scroll Sawyer.
Albert H. Geir.....	33	"	9 "	126 S. Chapel street.	Painter.
Charles P. Nelson.....	45	"	11 "	105 S. Chester street.	Carpenter.
Richard V. Pittinger..	39	"	8 "	408 S. Collington av.	Carpenter.
Michal A. Lind.....	26	"	1 "	2124 Eastern avenue.	Coach Painter.

Occupation.

ENGINE COMPANY No. 12.

Located on Fort Avenue, corner of Johnson Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Michael Lycett.....	41	Engineman	15 years...	1417 Battery avenue.	Machinist.....
Thomas S. Atkinson...	38	Ass't Eng'n	7 " ...	1425 Johnson street...	Machinist.....
Joseph W. Moon.....	37	Driver	9 " ...	1501 Battery avenue.	Laborer.....
Edward C. Klessell...	35	Fireman....	6 " ...	1434 Johnson street....	Gilder
George Stegman.....	27	" ...	1 " ...	1217 Marshall avenue.	Laborer.....
<i>Members at Call.</i>					
Geo. Mackenhammer 50	Captain	16 years...	1554 Battery avenue...	Cigarmaker.....	
Thomas Fitzpatrick... 51	Fireman....	8 " ...	1142 Johnson street...	Tinner	
Benjamin T. Wirts... 48	" ...	19 " ...	44 Poultney street...	Collarmaker ...	
James Catterton..... 40	" ...	1 " ...	1460 William street...	Painter	
Emanuel Becker..... 42	" ...	1 " ...	43 James alley.....	Cannaker.....	
Charles Windus..... 26	" ...	2 Months	1210 Battery avenue...	Laborer.....	

ENGINE COMPANY No. 13.

Located at the intersection of Fremont Street and Myrtle Avenue.

FIRE DEPARTMENT.

789

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
John H. Deal.....	45	Engineman	16 years...	1519 Myrtle avenue...	Machinist.
John A. Bannon.....	44	Ass't Eng'n	10 "	425 N. Poppleton st...	Machinist.
Thomas H. Wright....	33	Driver.....	3 "	1608 Mulberry street...	Driver.
Julian Massieu.....	29	Fireman....	3 "	2131 Division street...	Driver.
<i>Members at Call.</i>					
John Hoffman.....	40	Captain...	11 years...	618 Mosher street.....	Canmaker.
Philip Bowen.....	36	Fireman...	10 "	1112 Pennsylvania av.	Cigarmaker.
Lawrence Pistel.....	38	"	15 "	1544 Argyle avenue...	Cigarmaker.
Wilbur Pierce.....	30	"	4 "	1434 Argyle avenue...	Molder.
James Keyser.....	44	"	4 "	Pitcher street....	China Packer.
William R. La Shorne.	41	"	15 "	1342 N. Fremont st. ...	Upholsterer.
Lee Conn.....	26	"	1 "	1421 Patterson ave.....	Driver.

Occupation.

HOOK AND LADDER COMPANY No. 1.

Located on Harrison Street, near Fayette Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Wm. E. Van Rossum.	39	Tillerman...	3 years...	122 Jackson street...	Driver.
John B. Kelly.....	...	As. Tillm'n.	8 months	1324 Bolton street.....	Driver.
John T. Mulligan.....	28	Driver	4 years...	62 Camden street....	Driver.
John B. Keene.....	48	Ladderman.	22 " ..	1207 N. Eden street ...	Carpenter.
Alexander D. Chrisner	41	" "	10 " ..	1237 McEldery street.	Machinist.
Lewis Battee.....	26	" "	4 months	1422 E. Lombard street	Paper Hanger.
<i>Members at Call.</i>					
William M. Dunn	32	Captain.....	10 years...	143 N. Front street...	Collector.
Frederick Oelman, Jr.	30	Ladderman	6 " ..	14 N. Front street...	Blacksmith.
Albert Cassiday.....	26	" "	4 " ..	202 N. Front street...	Machinist.
Thomas B. Strahan....	40	" "	7 " ..	185 N. Front street...	Carrier.
William H. Hartman.	29	" "	5 " ..	909 Granby street...	Plumber.
Cooper Elliott.....	34	" "	2 months	9 S. Central avenue	Driver.

HOOK AND LADDER COMPANY No. 2.

Located on Paca Street, near Fayette Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Charles Rolf.....	32	Tillerman...	9 years...	208 W. Saratoga street	Boxmaker.
John W. Blake.....	51	As. T'llm'n.	17 " "	106 N. Paca street.....	Machinist.
Thomas Montgomery.	46	Driver.....	17 " "	119 N. Paca street.....	Driver.
William H. Quigley...	32	Ladderman	8 " "	107 N. Poppleton st....	Carpenter.
Chas. E. Eichelberger	39	"	13 " "	210 N. Pine street	Painter.
Jonh Acomb.....	34	"	1 " "	607 W. Lexington st.	Driver.
<i>Members at Call.</i>					
Frederick Brannan....	38	Captain	8 " "	647 N. Paca street.....	Harnessmkr.
Thomas Wagner	45	Ladderman	19 " "	104 Diamond street....	Blacksmith.
George Bowers.....	35	"	10 " "	636 Clinton avenue....	Paperhanger.
John W. Kelly.....	25	"	8 months	440 W. Biddle street.	Driver.
William H. Thomas...	27	"	5 " "	618 Wyeth street.....	Wood Turner.
Walter Byrns.....	39	"	2 " "	1406 W. Mosher street.	Salesman.

HOOK AND LADDER COMPANY No. 3.

Located on South Ann Street near Gough Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
Louis Laux.....	31	Tillerman...	8 years...	1819 Orleans street....	Confectioner.
John M. Downs.....	39	As. T'llm'n	17 "	2021 E Fayette street.	Painter.
Chas. C. Schoepplein	33	Driver.....	7 "	1807 E. Bank street...	Upholsterer.
T. Benjamin Levy...	33	Ladderman	3 "	1339 Orleans street...	Painter.
William Baker.....	30	"	7 "	516 N. Chappel street	Laborer.
John McClellan.....	53	"	17 "	1720 Fairmount av....	Sailmaker.
<i>Members at Call.</i>					
George W. Foxwell...	40	Captain	17 years...	1911 E. Pank street...	Shipwright.
Jesse Vickers.....	54	Ladderman	13 "	122 S. Ann street.....	Painter.
John A. Sauer.....	39	"	8 "	124 S. Bethel street...	Cooper.
Andrew German.....	38	"	16 "	1709 E. Pratt st.....	Painter.
George Little.....	45	"	3 "	1808 Gough street	Painter.
Joshua H. Miller.....	31	"	2 "	1247 Jackson street....	Cigarmaker.

Occupation.

HOOK AND LADDER COMPANY No. 4.

Located on West Biddle Street near Druid Hill avenue.

FIRE DEPARTMENT.

793

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
William White.....	42	Tillerman...	19 years...	918 George street.....	Carpenter.
John G. Gill.....	57	As. Tillm'n.	28 " "	631 W. Fayette street	Painter.
Joseph Lavender.....	42	Driver.....	15 " "	245 Pearl street.....	Carpenter.
John H. Morgan.....	37	Ladderman	15 " "	226 Pearl street.....	Paperhanger.
George Wohlebar....	28	" "	1 " "	438 W. Biddle street...	Laborer.
August Emerick.....	25	" "	4 " "	1232 Pennsylvania av.	Coal Dealer.
<i>Members at Call.</i>					
James Kelly.....	36	Captain.....	8 " "	929 Elm Place.....	Plasterer.
Andrew Bilson.....	36	Ladderman	7 " "	638 Myrtle avenue.....	Plasterer.
George W. Allen.....	44	" "	4 " "	1121 Etting street	Painter.
Patrick Burns	37	" "	4 " "	908 Druid Hill avenue	Laborer.
Michael J. McCormick	29	" "	18 months	926 N. Eutaw street...	Brass Finisher.
John Kurne.....	28	" "	14 " "	415 Hoffman street.....	Shoemaker.

Occupation.

HOOK AND LADDER COMPANY No. 5.

Located on Aisquith Street, near Oliver Street.

NAMES.	AGE.	POSITION.	TIME IN SERVICE.	RESIDENCE.	FORMER OCCUPATION.
<i>Permanent Employees.</i>					
George W. Haskell....	42	Tillerman....	11 years...	1318 Holland street....	Carpenter.
Fielding H. Lucas.....	36	As. T'llm'n.	7 " ...	1330 Ensor street.....	Type Molder.
William H. Ryan.....	24	Driver.....	8 months	N.W. cr. High & Hillen	Driver.
William Quinn.....	37	Ladderman	8 " ...	1517 Aisquith street...	Driver.
William H. Riley.....	41	"	5 years...	1306 Aisquith street...	Painter.
Martin Kirby.....	43	"	6 " ...	1125 Somerset street...	Trunkmaker.
<i>Members at Call.</i>					
<i>Occupation.</i>					
Albert Ramia.....	32	Captain	4 years....	106 Water street.....	Restaurant.
William Wiley.....	45	Ladderman	8 months.	1308 Harford avenue..	Cigarmaker.
William T. Beal.....	27	"	8 " ...	1006 Federal street....	Canmaker.
William R. Bolgiano.	29	"	8 " ...	1306 Chew street.....	Clerk.
John T. Harney.....	40	"	8 " ...	1421 N. Central ave....	Excavator.
Thomas Strahler.....	28	"	6 years....	1219 E. Monument st..	Tinner.

FIRE RECORD.

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.

DATE.	Box.	HOUR A. M.	HOUR P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK LADDER CO. OF BUILDINGS.	STYLE	REMARKS.
January. Saturday	1324	....	5.35	263 W. Hoffman st.	M. Conrad.	Dwelling.	.....	.....	Three-story brick.	Loss none; recall 5.45 P. M.; gas jet set fire to Christ- mas tree; extin- guishers 4 Hook and Ladder Co.
Saturday	1161	....	9.27	509 S. Wolfe st.	J. Dopman.	Dwelling.	5, 11.	3	Two story brick.	Loss \$233.54; recall 10.30 P. M.; over- heated stove.
Sunday	235	10.25	....	128 Richmond st.	R. Harding.	Dwelling.	.....	.....	Three-story brick.	Loss \$63.10; recall 10.55 A. M.; over- heated stove; ex- tinguishers 7 En- gine and 4 Hook and Ladder Co.
Sunday	227	....	7.23	900 Shuter street.	Valentine Diller.	Dwelling and 9. restaurant.	.....	3	Two-story brick.	Loss \$400.00; recall 8.08 P. M.; sparks from candle fall- ing in bed.
Monday	3173	....	3.28	702 Burke street.	Henry Fowler.	Dwelling.	.....	.....	Three story brick.	Loss \$10.00; recall 3.43 P. M.; child threw lighted pa- per in box of kind- ling wood; extin- guishers 11 En-

Monday	3 347	...	8.05 232 N. Calvert st.	H. S. Dallam.	Dwelling.	 Four-story brick.	Loss \$50.00; recall 9.00 P. M.; lighted candle set fire to clothes in closet; extinguishers 7 Engine and 4 Hook and Ladder Cos.	gine and 3 Hook and Ladder Cos.
Tuesday	4 121 12.48	....	S. E. Cor. Commerce and Exchange place.	F. D. Harman & Sons.	Coffee broker office.	 Four-story brick.	Loss \$97.00; recall 1.38 A. M.; overheated stove; extinguishers 3 and 4 Engine and 1 Hook and Ladder Cos.	Loss \$97.00; recall 1.38 A. M.; overheated stove; extinguishers 3 and 4 Engine and 1 Hook and Ladder Cos.
Tuesday	4 434	....	12.26 1418 W. Pratt st.	A. Freburger.	Dwelling.	 Three-story brick.	Loss \$6.00; recall 12.45 P. M.; unknown; extinguishers 8 and 10 Engine and 2 Hook and Ladder Cos.	Loss \$6.00; recall 12.45 P. M.; unknown; extinguishers 8 and 10 Engine and 2 Hook and Ladder Cos.
Tuesday	4 352	....	2.43 1604 Park ave.	F. C. Pitt.	Dwelling.	 Three-story brick.	Loss none; recall 3.09 P. M.; defective flue.	Loss none; recall 3.09 P. M.; defective flue.
Wednes.	5 212	....	12.01 147 Harrison st.	M. Malerone.	Stove store & dwelling.	 1 Three-story brick.	Loss \$10.00; recall 12.03 P. M.; turbine in stove.	Loss \$10.00; recall 12.03 P. M.; turbine in stove.
Thursd'y	6 41	....	8.11 11 St. Paul st.	A. Collier.	Book Agents office.	1, 2. Three-story brick.	Loss \$300.00; recall 9.25 P. M.; overheated stove.	Loss \$300.00; recall 9.25 P. M.; overheated stove.

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour, A. M.	Hour, P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER Cos.	STYLE OF BUILDINGS.	REMARKS.
January. Saturday	8 613	12.30	....	Foot of Montgomery street.	C. W. Booze.	Steamship <i>Raleigh</i> .	2, 10, 12.	2.	.....	Loss \$4,301.60; recall 3.05 A. M.; overheated boiler.
Saturday	8 313	...	12.49	12 Cathedral st.	Dr. W. W. Markland.	Dwelling.	.....	4.	Three-story brick.	Loss \$25.00; recall 1.12 P. M.; foul chimney.
Saturday	8 4 422	....	12.58 12.59	German street, bet. South & Calvert sts.	Merchants Club.	Reading rooms.	.....	.....	Four-story brick.	Loss \$10.00; recall 1.45 P. M.; recall 3.47 P. M.; defective flue; extinguishers 1 Hook and Ladder Co.
Sunday	9 128	....	1.40	106 Centre Market Space.	Jas. Cunningham.	Restaurant & dwelling.	.....	.....	Three-story brick.	Loss \$50.00; recall 1.55 P. M.; bursting of a gasoline stove; extinguishers 3 and 4 Engine and 1 Hook and Ladder Cos.
Sunday	9 152	....	2.17	3 N. Broadway.	John F. Hunter	Dwelling.	.....	.....	Three-story brick.	Loss \$241.57; recall 3.14 P. M.; defective flue; extinguishers 3 and 5 Engine and 3

Sunday	9 352	....	6.49	132 W. Townsend street.	E. A. Donaldson.	.....	Three-story brick.	Hook and Ladder Cos. Loss \$298.60; recall 7.49 P. M.; defective fire-place; extinguishers 8 and 13 Engine and 4 Hook and Ladder Cos.
Tuesday	11 53	4.15	....	866 Columbia ave.	Jas. W. Harr.	Dwelling.	10. 2. Three-story brick.	Loss \$686.75; recall 5.15 A. M.; overheated stove. A woman and boy were rescued by No. 2 Hook and Ladder Co.
Wednes. 2d alarm. 3d "	12 316	1.33 1.40 1.47	.... .... ....	North street, bet. Centre and Monument sts.	Penna. R. R. Freight Co. Freight Warehouse.	1, 2, 3, 4, 5, 1, 4, 6, 7, 8, 13.	One-story brick.	Loss \$4,000.00; recall 5.48 A. M.; overheated stove in office; 4 members of No. 4 Hook and Ladder Co., and 3 members of No. 13 Engine Co. were injured.
Thursd'y	13 525	....	8.23	240 W. Pratt street.	Hirshberg, Hol-lander & Co.	Paint and oil store.	 Five-story brick.	Loss \$32.00; recall 8 50 P. M.; overheated stove; extinguishers 2 Engine and 2 Hook and Ladder Cos.
Thursd'y 2d alarm.	13 248	.... ....	7.01 7.09½	N. E. cor. Hillen & Holliday sts.	Rosenburg, Happ & Siegel.	Kid leather manufacture.	1, 2, 3, 4, 5, 1, 2, 4, 6, 7, 9.	Loss \$19,442.79; recall 9.56 P. M.;

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	BOX.	HOUR A. M.	HOUR P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
3d alarm.			7.14 $\frac{1}{2}$							over-heated steam pipes in drying-room.
Saturday 15 542		3.45		S. E. cor. Cross and Eutaw sts.	D. Wilton & Sons.	Furniture factory.	.....	.....	Two-story brick.	Loss none; recall 4.03 P. M.; sparks from furnace.
Monday 17 472		12.18		1418 Bruce street.	.....	Not occupied.	.....	.....	Two-story brick.	Loss \$15.00; recall 12.40 P. M.; child- ren set fire to loose straw in basement, extin- guishers 8 and 13 Engine and 4 Hook and Ladder Cos.
Tuesday 18 215		1.08		217 East street.	A. Fortune.	Dwelling.	.....	.....	Three-story brick.	Loss \$20.00; recall 1.17 P. M.; child- ren playing with matches; exting- uishers 6 and 9 Engine and 1 Hook and Ladder Cos.
Tuesday 18 61		7.51		25 E. Lee street.	Roger Kinnet.	Restaurant & Lod'ng house	.....	..... 2.	Three-story brick.	Loss \$85.00; recall 8.19 P. M.; defect-

Tuesday 18 313	.....	7.59 12 Hamilton st.	C. Thompson.	Dwelling.	.....	Three-story brick.	Loss \$50.00; recall 8.17 P. M.; mattress taking fire; extinguishers 7 & 8 Engine and 4 Hook and Ladder Cos.	ive 'flue; extinguisher 2 Engine Co.
Tuesday 18 526	.....	11.16 Conway street, bet. 11.21 Howard & Sharp sts.	Charles W. Stieff.	Piano factory	1, 2, 3, 4, 5, 1, 2, 4, 6, 7, 10, 12.	Four-story brick.	Loss \$24,777.35; recall 9.14 A. M.; unknown. The wind was blowing a gale from N. W. and the thermometer was 9 degrees above zero.	
Wednes. 19 562	3.49	.....	1526 Hanover st.	T. B. Craig.	Stable.	9.	Two-story frame.	Loss \$275.00; recall 5.00 A. M.; unknown.
Wednes. 19 354	.....	9.46 151 W. Lanvale st.	Mrs. William Collins.	Dwelling.	.....	Three-story brick.	Loss \$82.16; recall 10.32 P. M.; overheated furnace; extinguishers 7 & 13 Engine and 4 Hook and Ladder Cos.	
Thursd'y 20 24	.....	2.33 315 N. Gay street.	Julius Stern.	Stove house & dwelling.	.....	Three-story brick.	Loss \$56.25; recall 2.47 P. M.; children playing with matches; extinguishers 6 Engine	

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	HOUR. A. M.	HOUR. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Sunday 23	45	12.33	....	1013 Saratoga street (in the rear).	Jas. Fahey.	Stable.	8, 10, 13.	4.	Two-story brick.	and 1 Hook and Ladder Cos. Loss \$350.00; recall 3.11 A. M.; un- known.
Sunday 23	162	2.25	....	S. W. cor. Thames and Wolfe sts.	J. F. Passano.	Lumber yard office.	5, 9, 11.	3.	One-story frame.	Loss \$560.03; recall 4.26 A. M.; incen- diary.
Monday 24	213	8.23	....	225 N. Exeter st.	L. Bernstein.	Bakery and dwelling.	.....	.....	Three-story brick.	Loss \$22.00; recall 9.16 A. M.; top of oven falling off; extinguishers 6 Engine and 1 Hook and Ladder Cos.
Tuesday 25	512	....	7.10	51 S. Charles st.	J. F. Lotz. W. D. Skinner.	Cigar factory. Com. Mer- chant.	2.	1, 2.	Four-story brick.	Loss \$1,623 00; re- call 8.22 P. M.; over-heated stove
Thursday 27	613	....	4.17	Hughes st., near Covington st.	J. Frederick & Sons.	Ice storage house.	12.	2.	Two-story frame.	Loss \$6.50; recall 4.46 P. M.; sparks from smoke-stack
Friday 28	212	....	5.28	19 Centre Market Space.	John Con- cannon.	Restaurant & boarding house.	.....	.....	Three-story brick.	Loss \$50.00; recall 5.52 P. M.; sparks from chimney; ex- tinguishers 3 and

Saturday 29	8 12.23	....	1105 Haubert st.	John Clark.	Dwelling.	12.	2.	Two story brick.	Loss \$500.00; recall 1.24 A. M.; over- heated stove.	4 Engine and 1 Hook and Ladder Cos.
Sunday 30 213	....	6.51	169 N. Front st.	W. H. Burch.	Dwelling.	.....	.....	Three-story brick.	Loss \$20.00; recall 7.12 P. M.; over- heated stove; ex- tinguishers 6 En- gine and 1 Hook and Ladder Cos.	
February.										
Tuesday 1 232	6.59	....	Broadway between Fayette & Hamp- stead sts.	Presbyterian Congregation.	Church Home 5. and Infir- mary.	.....	3.	Five-story brick.	Loss \$100.00; recall 7.50 A. M.; over- heated pipe.	
Saturday 5 413	....	7.47	S. E. cor. Fayette J. Riddle- st. & McClellan's alley.	J. Riddle- mosher & Co.	Carriage factory.	.....	2.	Four-story brick.	Loss none; recall 1.59 P. M.; sparks from forge.	
Sunday 6 162	1.12	....	S. E. cor. Thames Paul Thiel. & Fells st.	Paul Thiel.	Feed store & 3, 5, 9, 11, 3. stable.	.....	.....	Two-story and garrett brick.	Loss \$2,378.54; re- call 4.38 A. M.; horses burned to death.	
Monday 7 525	....	11.37	217 Hanover st.	S. Clare.	Notion store.	.....	.....	Three-story brick.	Loss \$1,550.62; re- call 12.17 A. M.; February; sch; un- known; extin- guishers 2 and 4 and 1 and 1 Hook and Lad- der.	
Tuesday 8 525	....	8.39	211 W. Pratt st.	Krantz & Mann	Commission merchant.	.....	.....	Four-story brick.	Loss \$10.00; recall 1.00 P. M.; sparks from stove; extin-	

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour A. M.	Hour P. M.	LOCALITY.	OCCUPANT.	How OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER Cos.	STYLE OF BUILDINGS.	REMARKS.
Wednes. 2d alarm.	9 156	1.13 1.20		813 S. Broadway.	O'Donnell Brothers.	Steam bakery	2, 3, 4, 5, 9, 11.	1, 3.	Four-story brick.	guishers 2 Engine and 2 Hook and Ladder Cos. Loss \$9,584.36; re- call 7.25 A. M.; heat from boiler; Loss none; recall 8.38 P. M.; foul chimney.
Thursd'y	10 422		8.16	13 South st.	E. B. Reed & Sons.	Printing office.	.....	1	Four-story brick.	Loss \$1,309.64; re- call 2.18 A. M.; overheated stove; extinguishers 3, 4 and 6 Engine and 1 Hook and Lad- der Cos.
Monday	14 212	1.47		N. E. cor. Fayette st. and Bridge.	Wm. H. Lin- derman.	Morocco factory.	.....		Two-story brick.	Loss \$12,541.17; re- call 10.40 A. M.; unknown.
Saturd'y 2d alarm. 3d alarm.	19 26	4.00 4.04 4.32		13, 15, and 17 Ed- ward street.	Ed-Gunther & Fink.	Furniture factory.	3, 4, 5, 6, 7, 9.	1, 4.	Four-story brick.	Loss \$110.99; recall 8.41 A. M.; over- heated stove-pipe Loss \$60.00; recall 10.58 P. M.; over- heated stove; ex-
Sunday	20 234	8.02		210 N. Ohappel st.	C. Hoeman.	Dwelling.	9.	3.	Two-story brick.	
Tuesday	22 161		10.34	537 S. Broadway.	J. Frankel.	Notion store.	.....		Four-story brick.	

Wednes. 23 623	5.01	.....	723 S. Charles st.	Annie Cohen.	Notion store.	.....	Three-story brick.	tinguishers 5 and 11 Engine and 3 Hook and Ladder Cos. Loss \$100.00; recall 5.18 A. M.; over- heated stove; ex- tinguishers 2 En- gine Co. Loss \$150.34; 63; re- call 8.59 P. M.; gas leak in the basement of Dar- by & Co. Loss \$70.00; recall 1.30 A. M.; lighted match falling in waste paper; ex- tinguishers 2 En- gine and 2 Hook and Ladder Cos. Dr. Joseph Vill- iard, in room on fourth floor, was suffocated. Loss \$10.00; recall 12 34 A. M.; un- known; extin- guishers 8 and 10 Engine and 2 Hook and Ladder Cos.
Friday 25 414	6.45 6.48 6.50	.....	323 W. Baltimore street. 325 W. Baltimore street.	Rouse, Hemp- stone & Co. Darby & Co.	Wholes'le dry goods store. Wholesale Confection'ry	1, 2, 3, 4, 5, 1, 2, 4. 6, 7, 8, 9, 10, 12, 13.	Five-story brick. Six-story iron front.	
Saturday 26 514	12.51	.....	220 S. Eutaw st.	Alfred Dorge.	Saloon & ten- ement house	.....	Four-story brick.	
Sunday 27 426	12.17	.....	1019 Hollins st.	L. F. Veasel.	Dwelling.	.....	Two-story brick.	

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour A. M.	Hour P. M.	LOCALITY.	OCCUPANT.	How OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER Cos.	STYLE OF BUILDINGS.	REMARKS.
Monday	28 526	6.20	....	225 Hanover st.	Union Pacific Tea Co.	Tea store.	2, 4.	1, 2.	Four-story brick.	Loss \$686.10; recall 8.25 A. M.; un- known.
March. Tuesday	1 16	1.50	....	S. Durham st. near Pratt st.	John Zielers,	Stable.	3, 5, 11.	3.	Two-story brick.	Loss \$500.00; recall 2.59 A. M.; parties smoking in loft.
Tuesday	1 156	....	2.44	1709 Thames st., (in the rear.)	H. S. Lanfair & Co.	Oyster pack- ing estab- lishment.	5.	3.	Covered wharf.	Loss \$25.00; recall 3.24 P. M.; boy set fire to a barrel of lacquer.
Wednes.	2 258	....	1 26	805 E. Chase st.	J. Gelbach.	Dwelling.	 4.	4.	Three-story brick.	Loss \$223.45; recall 2.30 P. M.; chil- dren playing with matches; extin- guishers 6, 7 and 9 Engine Cos.
Thursd'y	3 161	....	....	635 S. Broadway.	L. Blum.	Clothing store.	.....	.....	Three-story brick.	Loss \$71.55; recall 3.38 A. M.; spon- taneous combus- tion; extinguish- ers 6, 9 and 11 En- gines and 3 Hook and Ladder Cos.
Friday	4 36	....	7.25	908 N. Fremont st., (in the rear.)	Dr. Bacon.	Stable.	8, 13.	4.	Two-story brick.	Loss \$70.13; recall 8.30 P. M.; unk'n.

Saturday	5 381	.....	12.10 1604 Presstman st.	M. G. Cleary.	Dwelling.	13.	4.	Three-story brick.	Loss \$250.00; recall 1.13 P. M.; defective fire.
Friday	11 38	.....	12.08 221 Bouldin alley.	S. Harvey.	Dwelling.	.....	.....	Two-story brick.	Loss \$20.00; recall 12.35 P. M.; children playing with matches; extinguishers 8 and 13 Engine and 4 Hook and Ladder Cos.
Saturday	12 362	.....	4.09 717 Franklin st.	T. H. Reip.	Tinware store & dwelling.	.....	.....	Three-story brick.	Loss \$12.00; recall 4.17 P. M.; sparks from chimney.
Saturday	12 364	.....	5.53 610 and 612 Green Willow st.	Geo. Thater. Geo. Dennis.	Grocery store. Blacksmith shop. Stable.	7, 8, 13.	4.	Two-st'y brick. One-st'y frame. 60 ft. front & 40 ft. deep.	Loss \$1,473.77; recall 7.25 P. M.; over heated stove pipe.
Monday	14 48	.....	6.21 2121 W. Pratt st.	A. D. Kerr. J. H. Shaffer.	Butchering establishment.	8.	.....	Two-story frame.	Loss \$186.50; recall 6.58 P. M.; sparks from smoke-house.
Wednes.	16 264	.....	6.56 712 N. Spring st.	J. A. Stewart.	Dwelling.	.....	.....	Two-story brick.	Loss \$20.00; recall 7.19 P. M.; sparks from chimney; extinguishers 6 and 9 Engine and 3 Hook and Ladder Cos.
Thursd'y	17 212	.....	9.54 12 Centre Market Space.	Geo. Height.	Junk shop.	3.	1.	Three-story brick.	Loss \$103.81; recall 10.50 P. M.; unknown.
Friday	18 39 12.45	.....	..... 1646 N. Carey st. 1648 N. Carey st.	Mrs. Mcgee. Mrs. Canack.	Dwelling. Dwelling.	7, 8, 13.	4.	Two-st'y frame. Two-st'y frame.	Loss \$651.00; recall 2.20 A. M.; sup-

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour, A. M.	Hour, P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Saturday 19	26	8.58	....	1650 N. Carey st. S. E. Cor. Chew st. and Central Ave.	 Phil. Bangert.	Not occupied. Oil store and dwelling.	.....	.....	Two-story frame. Three-story brick.	posed incendiary by tramps. Loss \$150.00; recall 9.14 A. M.; over- heated stove; ex- tinguishers 6 and 9 Engine Cos.
Wednes.	23 521	5.01	....	10 E. Camden st.	Geo. P. Brown.	Candy mft'y.	2, 4, 12.	1, 2.	Four-story brick.	Loss \$2,555.77; recall 6.45 A. M.; over- heated stove.
Friday	25 415	5.57	....	328 W. Balto. st.	Sparks and Barnes.	Restaurant.	.....	.....	Four-story brick.	Loss \$949.47; recall 6.40 A. M.; un- known; extin- guishers 12 and 7 Engine and 1 and 2 Hook and Lad- der Cos.
Friday	25 141	....	6.10	N. E. Corner Can- ton Avenue and President st.	Otto Duker & Co.	Planing mill.	.....	.....	Three-story brick.	Loss none; recall 6.30 P. M.; sparks from smoke-st'ek; extin guisher 3 Engine Co.
Friday	25 271	....	10.56	319 N. Bond st.	J. Huebka.	Smoke-house and dwell- ing.	.....	.....	Three-story brick.	Loss \$50.00; recall 11.29 P. M.; meat in smoke-house

Tuesday	29 161	....	8.35	10 and 182 S. Broad way.	Jacob Frankel.	Notion store.	5, 11.	3.	Three-story brick.	Loss \$15,235.00; recall 9.53 P. M.; gas jet set fire to goods in the window.	burning; extinguishers 6 and 9 Engine and 3 Hook and Ladder Cos.
Wednesday	30 562	....	11.32	1703 S. Charles st.	Jas. West	Dwelling.			Two-story brick.	Loss \$50.00; recall 11.52 P. M.; coal oil lamp falling; extinguisher 12 Engine Co.	
April.											
Friday	1 171	12.57	....	2208 Cambridge st.	W. H. Kanne.	Blacksmith shop.			One-story brick.	Loss \$127.43; recall 12.0 A. M.; unknown; extinguishers 5 and 11 Engine and 3 Hook and Ladder Cos.	
Saturday	2 163	11.53	....	2001 Fairmount ave.	M. Hela.	Dwelling.			Two-story brick.	Loss \$32.00; recall 12.13 P. M.; overheated stove; extinguishers 5 and 11 Engine and 3 Hook and Ladder Cos.	
Saturday	2 247	....	10.53	546 N. Gay st.	Mary Donat.	Hair dressing establishment and dwelling.			Three-story brick.	Loss none; recall 10.59 P. M.; smoke blowing down the chimney.	

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	BOX.	HOUR. A. M.	HOUR. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE	HOOK & LADDER Cos.	STYLE OF BUILDINGS.	REMARKS.
Sunday	3 422	1.35	....	9 and 11 North st.	John Mitchell.	Coffee House.	4.	1, 2.	Three story brick.	Loss \$100.00; recall 2.07 A. M.; defec- tive flue.
Tuesday	5 213	10.17	....	107 N. Gay st.	J. & A. Frankel.	Notion store.	3, 4, 6, 9.	1.	Three-story brick.	Loss \$9.71 & 84; recall 12.57 P. M.; un- known.
Friday	8 153	....	2.14	Dallas st. bet. Can- ton and Eastern ave.	Colored Meth. Epis.	Church.	.....	.....	Two-story brick.	Loss \$33.33; recall 3.10 P. M.; sparks from smoke-stack on adjoining building; extin- guishers 3, 5 and 11 Engine and 3 Hook and Ladder Cos.
Saturday	9 461	2.17	....	Wilkins ave. bet. Ryan and Benta- lou st.	B. & O. R. R. Co.	Storage lot.	13.	2.	Pile of old lumber.	Loss \$10.00; recall 4.30 A. M.; un- known.
Saturday	9 153	....	2.18	Dallas st. bet. Can- ton and Eastern ave.	Colored Meth. Epis.	Church.	.....	.....	Two-story brick.	Loss \$33.33; recall 3.21 P. M.; sparks from smoke-stack on adjoining building; extin- guishers 3, 5 and 11 Engines and 3

Saturday	9 532	....	7.23	542 Burgundy alley. T. Dixon.	Dwelling.	.....	Three-story brick.	Hook and Ladder Cos. Loss \$50.00; recall 7.49 P. M.; explo- sion of coal oil lamp; extinguish- ers 2 Engine Co. Loss \$88.45; recall 8.52 A. M.; sparks from furnace. Loss \$1.08.00; recall 12.37 P. M.; boys s m o k i n g i n stable. Loss \$200.00; recall 12.55 P. M.; party burning brush; extinguishers 5, 9 and 11 Engines and 3 Hook and Ladder Cos. Loss none; recall 3.29 P. M.; un- known. Loss \$2,496.50; recall 9.56 P. M.; un- known. Loss none; recall 1.42 P. M.; saw in flue, inadvisable to go in 13 En- gine and 4 Hook and Ladder Cos.
Sunday	10 417	7.59	....	606 Portland st. C. C. Rumpf & Co.	Box factory.	2, 10.	One-story brick.	
Sunday	10 372	11.10	....	Whatcoat st. near Col. Meth. Patterson ave.	Church. Stable.	7, 8, 13.	One-story brick. Two-story brick. Fencing.	
Monday	11 236	11.59	....	E. Fayette st. ext.	Cemetery.	.....		
Tuesday	12 358	....	3.05	1705 Barelay st. H. Courtney.	Dwelling.	.....	Three-story brick.	
Tuesday	12 173	....	7.48	Foot of Luzerne st. C. Treusch.	Storage shed.	5, 11,	One-story frame.	
Wednes.	13 363	....	4.32	781 W. Mulberry st. Mary Korb.	Dwelling.	.....	Three-story brick.	

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	BOX.	HOUR. A. M.	HOUR. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER Cos.	STYLE OF BUILDINGS.	REMARKS.
Thursd'y 14 418			3.36	220 N. Howard st.	M. Benton.	Hair dressing establish- ment.	.....	2.	Three-story brick.	Loss \$140.00; recall 3.44 P. M.; explo- sion of gasoline stove.
Thursd'y 14 153			3.52	Dallas st., between Canton and East- ern avenues.	Colored Meth. Epis.	Church.	.....	.....	Two-story brick.	Loss \$23.34; recall 4.20 P. M.; sparks from smoke-stack on adjoining building; extin- guishers 3, 5 and 11 and 3 Hook and Ladder Cos.
Sunday 17 161			8.36	1702 Canton ave.	J. S. Smith.	Feed store.	5, 11.	3.	Two-story brick.	Loss \$2,160.00; re- call 11.37 P. M.; unknown.
Monday 18 413			7 44	200 N. Liberty st.	L. Barker.	Dwelling.	.....	.....	Three-story brick.	Loss none; recall 7.53 P. M.; foul chimney.
Monday 18 42			10.25	N. W. cor. Paca & Lexington st.	Wm. Sourley.	Tea store.	.....	.....	Three-story brick.	Loss \$760.69; recall 11.12 P. M.; un- known; extin- guishers 1, 2 and 4 Engine and 2 Hook and Ladder Cos.

Tuesday 19 217	....	7.11	852 N. Front st.	W. McSweeney.	Dwelling.	.....	Three-story brick.	Loss \$226.30; recall 7.43 P. M.; defec- tive flue; extin- guishers 3, 4, 6 and 9 Engine and 1 and 5 Hook and Ladder Cos.
Wednes. 20 254	9.0.	....	411 Union ave.	R. Landman.	Dwelling.	.....	Two-story brick.	Loss \$43.00; recall 9.26 A. M.; chil- dren playing with matches; ex- tinguishers 6 and 9 Engine and 5 Hook and Lad- der Cos.
Wednes. 20 153	....	2.05	512 S. Bond st.	Hanline Bros.	Paint and oil store.	3, 5. 3.	Three-story brick.	Loss \$2,132.15; re- call 3.17 P. M.; vapor from var- nish.
Saturday 23 72	11.26	....	Foot of Covington street.	Horner & Bro.	Fertilizer fac- tory.	 2.	Four-story brick.	Loss \$50.00; recall 1.09 P. M.; friction of machinery.
Monday 25 71	4.22	....	Lawrence st., near Fort avenue.	F. Collins.	Lime kiln.	12.	Frame shed.	Loss \$25.00; recall 4.46 A. M.; heat from kiln.
Friday 29 242	1.50	....	622 Forrest st.	C. R. Dilworth.	Rag & paper warehouse.	.....	Three-story brick.	Loss \$10.00; recall 2.19 A. M.; un- known; extin- guishers 6 and 9 Engine and 5 Hook and Lad- der Cos.
Saturday 30 161	....	12.44	619 S. Broadway.	J. M. Stoussels.	Millinery store and dwell'g.	.....	Three-story brick.	Loss \$178.09; recall 1.11 P. M.; defec-

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour. A. M.	Hour. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER Cos.	STYLE OF BUILDINGS.	REMARKS.
Saturday 30	21	....	7.24	Saratoga and Holi- day sts.	Flynn & Emrich.	Foundry.	.....	.....	Three-story brick.	tive flue; extin- guishers 5 and 11 Engine and 3 Hook and Ladder Cos.
May. Sunday 2d alarm.	141	....	3.15 3.22	N. W. cor. Canton ave. & President street.	Henry A. Gable Sash & factory.	door 3, 4, 5, 6, 11.	.....	1, 3.	Three-story brick.	Loss \$399.26; recall 7.46 P. M.; sparks from smoke- stack; extin- guishers 4 and 6 Engine and 1 Hook and Ladder Cos.
Sunday	1314	....	7.24	313 N. Howard st.	W. H. Scott.	Furniture factory.	.....	.....	Three-story brick.	Loss none, recall 7.55 P. M.; party dropping a lighted candle in pile of rubbish; extinguisher 4 Hook and Ladder Co.

Monday 2d alarm.	2 613	4.10 4.15	....	Foot of Hughes st. J. J. Frederick & Sons.	Ice storage warehouse.	2, 4, 10, 12, 3, 4.	One-story frame.	Loss \$2,175.00; recall call 6.36 A. M.; unknown.
Monday	2 251	....	4.42	1107 Getz ave.	Dwelling.	 5.	Two-story brick.	Loss \$5.00; recall 5.19 P. M.; children playing with matches.
Tuesday	3 32	....	3.53	617 N. Eutaw st.	Dwelling and Notion store.	 4.	Two-story brick and attic.	Loss \$110.00; recall 4.20 P. M.; over- heated stove- pipe; extinguish- ers 1 and 7 Engine Cos.
Tuesday	3 251	....	7.06	Harford ave and Chase st.	Church.	 5.	Two-story brick.	Loss \$10.00; recall 7.40 P. M.; explo- sion of gas meter.
Tuesday	3 61	....	8.29	10 & 12 E. Lee st.	Iron foundry.	.....	Two-story brick.	Loss \$30.00; recall 9.00 P. M.; heat from cupola; ex- tinguisher 2 En- gine Co.
Wednes.	4 312	5.05	....	20 & 23 Clay st.	Carpenter shop.	1, 7.	Three-story brick.	Loss \$549.71; recall 5.35 A. M.; un- known.
Sunday	8 425	....	10.05	S. W. cor. Amity & J. Friedman. Raborg sts.	Shoe store & dwelling.	.....	Two-story frame.	Loss \$116.25; recall 10.28 P. M.; coal oil lamp falling; ex- tinguishers 1, 8 and 10 Engine and 2 Hook and Ladder Cos.
Wednes.	11 517	10.27	....	Ridgely st., south of Ostend st.	Bridge.	10.	Wooden struc- ture.	Loss \$15.00; recall 11.09 A. M.; boys set fire to refuse

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	HOUR, A. M.	HOUR, P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOKE & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Thursd'y 12	42	1.45	....	S. W. cor. Paca and Fayette st.	Crescent Club.	Club house.	.....	.....	Three-story brick.	coal oil in the water. Loss \$261.25; recall 1.56 A. M.; elec- tric wire becom- ing disarranged; extinguisher 2 Hook and Ladder Co.
Friday 13	172	....	1.16	6 N. Chester st.	G. W. Cooper.	Dwelling.	.....	.....	Three-story brick.	Loss \$138.50; recall 1.41 P. M.; chil- dren playing with matches; ex- tinguishers 5 and 11 Engine and 3 Hook and Ladder Cos.
Friday 13	153	....	2.22	Dallas street, near Canton ave.	Colored Meth. Epis.	Church.	.....	.....	Two-story brick.	Loss \$10.00; recall 3.00 P. M.; sparks from smoke-stack on adjoining building; extin- guishers 3, 5 and 11 Engine and 3

Sunday	15 363	9.09	....	813 Chestnut alley.	M. Saunders.	Dwelling.	.....	Two-story brick.	Hook and Ladder Cos. Loss \$30.00; recall 9.37 A. M.; over- heated stove; ex- tinguishers 8 and 13 Engine and 4 Hook and Ladder Cos.
Monday	16 523	3.12	....	4 Welcome alley, near Eutaw st.	Siebler & Hebrancks.	Furniture factory.	1, 2, 7, 8, 10, 12, 2, 4.	Three-story brick.	Loss \$3,503.28; re- call 6.27 A. M.; heat from boiler.
Monday	16 123	4.18	....	116 S. Gay st.	Wm. Hopps.	Storage ware- house for hay.	1, 3, 4, 5, 6, 1, 3, 4, 9, 12, 13, 5,	Three-story brick.	Loss \$7,679.50; re- call 11.07 A. M.; unknown.
Monday	16 262	8.39	....	1617 E. Eager st.	Adam Miller.	Dwelling.	.....	Two-story brick.	Loss \$150.00; recall 9.00 A. M.; chil- dren playing with matches; ex- tinguishers 9 En- gine and 4 Hook and Ladder Cos.
Monday	16 145	....	11.24	1214 E. Fayette st.	A. Schwartz.	Dwelling.	.....	Three-story brick.	Loss \$2,112.50; re- call 12.02 A. M.; unknown; extin- guishers 3, 5 and 9 Engine and 3 Hook and Ladder Cos.
Wednes.	18 153	....	5.00	521 S Bond st.	J. Thorne.	Dwelling.	.....	Three-story brick.	Loss \$62.25; recall 5.08 P. M.; chil- dren playing with matches; extin- guishers 5 Engine

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.

DATE.	Box.	HOUR, A. M.	HOUR, P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER (%)	STYLE OF BUILDINGS.	REMARKS.
Sunday	22 415	12.01	....	12 N. Howard st.	Davis & Miller.	Wholesale drug store.	1, 2, 4, 7, 10.	1, 2.	Four-story brick.	and 3 Hook and Ladder Cos. Loss \$1625.14; recall 2 39 A. M.; spon- taneous combus- tion.
Tuesday	24 318	....	6.27	15 E. Saratoga st.	T. Weaver.	Boarding house.	.....	.....	Four-story brick.	Loss \$168.01; recall 7.05 P. M.; gas jet set fire to cur- tain; extinguish- ers 4 Engine and 1 Hook and Ladder Cos.
Wednes.	25 81	10.16	....	1469 Towson st.	Jas. Dunn.	Dwelling.	.....	.....	Two-story brick.	Loss \$60.00; recall 10 35 A. M.; over- heated stove; ex- tinguisher 12 En- gine Co.
Friday	27 165	10.45	....	23 S. Broadway.	J. Etehberger.	Dwelling.	.....	.....	Three-story brick.	Loss \$7.42; recall 11 40 A. M.; sparks from chimney ex- tinguishers 5 and 9 Engines and 3 Hook and Ladder Cos.

Friday	27	534	....	1.47	1023 Ridgely st.	J. C. Schaffer.	Blacksmith shop.	10.	2.	Two-story brick.	Loss \$250.00; recall 2.22 P. M.; can of turpentine upset.
Saturday	28	12	7.45	....	414 Second st.	C. Haffcke.	Storage ware-house.	.....	.....	Two-story brick.	Loss \$20.00; recall 8.05 A. M.; sparks from chimney; extinguisher 1 Hook and Ladder Co.
Tuesday	31	153	....	3.45	Dallas street, bet. Canton and Eastern aves.	Colored Meth. Epis.	Church.	5.	3.	Two-story brick.	Loss \$200.00; recall 5.07 P. M.; sparks from smokestack in adjoining building.
June. Wednes.	1	38	....	11.47	Brant street, near Robert st.	Sheep Butchers Association.	Storage ware-house.	7, 8, 13.	4.	Three-story brick.	Loss \$594.54; recall 1.01 A. M. Thursday 22d; spontaneous combustion.
Saturday	4	165	10.39	....	14 S. Ann st.	H. B. Hall.	Dwelling.	5.	3.	Three-story brick.	Loss \$118.34; recall 11 14 A. M.; sparks from stove-pipe.
Sunday	5	4	12.14	....	203 E. Baltimore st.	J. A. Carey.	Hat store.	3, 4, 6.	1, 2.	Five-story brick.	Loss \$521.60; recall 1.10 A. M.; unknown.
Sunday	5	54	5.57	....	926 Plum alley.	F. Gruter.	Stable and coopershop.	.....	.....	Three-story brick.	Loss \$50.00; recall 6.57 A. M.; explosion of coal oil lantern; extinguishers 2 Engine and 2 Hook and Ladder Co.

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour. A. M.	Hour. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK LADDER CO.	STYLE OF BUILDINGS.	REMARKS.
Monday	6422	....	5.24	304 E. Baltimore st.	Turpin & Nachman.	Variety theatre.	4.	1, 2.	Four-story brick.	Loss \$30.00; recall 3.50 P. M.; incen- diary.
Wednes.	8318	....	10.09	8 E. Saratoga st.	J. A. Stewart.	Locksmith.	....	....	Two-story brick.	Loss \$12.70; recall 10.28 P. M.; over- heated fire pot; extinguishers 7 Engine and 2 Hook and Lad- der Cos.
Saturday 11	52	11.57	....	S. E. cor. Sharp st. & Welcome alley.	H. Classen & Sons.	Storage ware- house.	2.	2.	Three-story brick.	Loss \$81.69; recall 12.34 P. M.; some person smoking cigar.
Monday	13613	....	3.25	No cause could be found for this alarm.			....	....	....	Loss none; recall 3.56 P. M.
Monday	1363	....	3.36	1289 William st.	G. Scheihing.	Oil store and dwelling.	....	....	Three-story brick.	Loss \$15.00; recall 3.56 P. M.; burst- ing of a gasoline stove; extin- guisher 12 Engine Co.
Monday	1314	....	5.46	Foot of Second st., adjoining the Falls.	J. L. Wicks & Co.	Tin can factory.	....	1, 3.	Two story brick.	Loss \$72.25; recall 6.20 P. M.; gaso- line leaking from

Monday 13 248	9 40 9 41	412 North st.	Geo. O. Stevens	Storage ware- house for sash, doors, &c.	3, 4, 6, 7, 9 1, 2, 4.	Three-story brick.	Loss \$5,000; recall call 11.35 P. M.; unknown.	tank; extinguish- ers 3, 4, 5 and 6 Engine (os.
Monday 13 248	11.39 11.41 11.43	408 North st.	W. E. Walker & Co.	(Commission Merchant.	1, 2, 3, 4, 5, 1, 2, 4, 6, 7, 8, 9, 5.	Three-story brick.	Loss \$6,255.12; re- call 3.09 A. M., Tuesday, 14th; unknown.	Loss \$1,200; recall 3.03 P. M.; explo- sion of gasoline
Tuesday 14 249	9.32	433 E. Madison st.	John Hegan.	Dwelling.	.....	Three-story brick.	Loss \$5.00; recall 9.44 P. M.; explo- sion of coal oil lamp; extinguish- ers 6 Engine and 4 Hook and Lad- der Cos.	Loss none; recall 8.31 P. M.; un- known; rubbish in cellar.
Wednes. 15 249	8.16	435 E. Madison st.	D. E. Evans.	Dwelling.	.....	Three-story brick.	Loss \$20.55; recall 9.12 A. M.; un- known.	Loss \$15.00; recall 1.31 P. M.; explo- sion of gasoline tank.
Thursd'y 16 143 8.17	....	1181 E. Lombard st.	Knoche & Doerris.	Feed store.	3, 5.	Three-story brick.	Loss \$2,976.45; re- call 2.18 A. M.; unknown.	Loss \$70.00; recall 3.03 P. M.; explo- sion of gasoline
Thursd'y 16 13	1.02	810 E. Pratt st.	Robt. Holmes.	Smelting fac- tory.	1, 3.	Five-story brick.	Loss \$2,976.45; re- call 2.18 A. M.; unknown.	Loss \$70.00; recall 3.03 P. M.; explo- sion of gasoline
Friday 17 527 12.28	....	126 Hanover st.	Schenthal & Greenbaum Myers, Andes & Co.	Shirt & over- all factory. Who's the gro- cery store.	1, 2.	Four-story brick.	Loss \$2,976.45; re- call 2.18 A. M.; unknown.	Loss \$70.00; recall 3.03 P. M.; explo- sion of gasoline
Friday 17 236	2.35	229 Burke st.	Mrs. C. Ec- cleston.	Dwelling.	.....	Three-story brick.	Loss \$70.00; recall 3.03 P. M.; explo- sion of gasoline	Loss \$70.00; recall 3.03 P. M.; explo- sion of gasoline

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	BOX.	HOR. A. M.	HOR. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Thursd'y 31	236	....	6.36	Philadelphia road near city limits.	J. W. Bond.	Manufact'y of fire works.	.....	.....	Six one-story frame build'gs.	13 Engine and 4 Hook and Ladder Cos. Loss \$2,500.00; re- call 7 02 P. M.; nothing in ser- vice; county. Loss \$649.86; recall 7.34 P. M.; un- known. Loss \$25.00; recall 8.07 P. M.; spon- taneous combus- tion; extinguish- ers 9 Engine and 5 Hook and Lad- der Cos. Loss none; recall 12.01 A. M., Satur- day, 2d; lighted match dropped through grating. Loss \$1,400.00; re- call 2.19 A. M.; unknown.
Thursd'y 30	525	....	6.49	5 E. Pratt st.	H. Knefely.	German pro- duce store.	2.	1, 2.	Four-story brick.	
Friday July.	1 27	....	7.54	800 N. Broadway.	Dr. Russell.	Dwelling.	.....	.....	Three-story brick.	
Friday	1 367	....	11.39	708 George st.	A. G. Clark.	Drug store & dwelling.	.....	4.	Three-story brick.	
Saturday 2	182	1.10	....	2301 Canton ave.	Geo. Weber.	Restaurant.	5, 11.	3.	Two-story brick.	

Saturday	2 249	....	2,2777 E. Monument st.	A. Storek & Sons.	Planing and sawing mill.	1, 5.	Two-story brick and frame.	Loss \$15.00; recall 3.02 P. M.; sparks from furnace.
Saturday	2 63	....	8,04 18 Gittings st.	H. Franck.	Dwelling.	.....	Three-story brick.	Loss \$25.00; recall 8.12 P. M.; explosion of gasoline stove; extinguisher 12 Engine Co.
Saturday	2 248	....	10,21 Bell alley.	H. Berry.	Stable.	.....	Two-story brick and frame.	Loss \$50.00; recall 10.38 P. M.; parties smoking in stable; extinguishers 4 and 6 Engine and 1 Hook and Ladder Cos.
Sunday	3 213	....	2,27316 N. Exeter st.	Dr. O. S. Mahon Mrs. Benner.	Office. Dwelling.	1, 5.	Three-story brick.	Loss \$300.00; recall 3.06 P. M.; fire crackers thrown on roof
Monday	4 17	11.19	 2215 Portugal st. 2217 Portugal st.	J. Günselman. C. Weigert.	Dwelling. Dwelling.	3.	Two-story brick. Two-story brick.	Loss \$230.13; recall 11.53 A. M.; defective flue.
Monday	4 153	....	2,42526 S. Caroline st.	C. Johnston.	Dwelling.	.....	Two-story brick.	Loss \$15.00; recall 2.55 P. M.; fire crackers thrown on roof; extinguishers 5 and 11 Engine and 3 Hook and Ladder Co.
Monday	4 238	....	3,27911 N. Gay st.	Mrs. E. R. Sill.	Dwelling.	5.	Three-story brick.	Loss \$113.95; recall 3.46 P. M.; fire

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	BOX.	HOUR A. M.	HOUR P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Monday 4 24		3.36	418	Mott st.	Mary Scott.	Dwelling.	.....	.....	Two-story brick.	crackers thrown on roof. Loss \$20.00; recall 3.55 P. M.; fire crackers thrown on roof; extin- guishers 3 Engine and 1 Hook and Ladder Cos. Loss \$60.00; recall 5.14 P. M.; fire crackers thrown on roof; extin- guisher 8 Engine & 2 H. & L. Cos. Loss \$156.16; recall 11.15 P. M.; fire crackers thrown on roof; extin- guishers 8 Engine and 2 Hook and Ladder Cos. Loss \$508.24; recall 12.59 A. M.; Tues-
Monday 4 48		4.50	2222	W. Pratt st.	(J. Wehrlein.	Plumb'g ship and dwell- ing.	.....	.....	Three-story brick.	
Monday 4 419		10.32	312	Saratoga st.	Geo. Derris.	Dwelling.	.....	.....	Three-story brick.	
Monday 4 238		11.59	919	N. Bond st.	Jacob Hobs.	Grocery store 6, 9, & dwelling.	.....	5.	Three-story brick.	

Wednes.	6 161	.....	7.41 1819 Eastern ave.	J. Nusbaum.	Dwelling.	.....	Two-story brick.	day, 5th; unknown. Loss \$10.00; recall 8.15 P. M.; sparks from chimney; extinguisher 3 Hook and Ladder Co.
Thurs'd'y	7 212	8.10	 817 & 819 E. Baltimore st.	Co-operative Company.	Furniture ware-rooms.	1, 3, 6.	1, 2. Three-story brick.	Loss \$963.15; recall 9.40 A. M.; varnish vaportaking fire from a light.
Saturday	9 472	8.10	 Fulton ave., near J. H. Hansen	J. H. Hansen	Storage warehouse.	7, 8, 13.	4. One-story frame 140 feet long, 30 feet wide.	Loss \$2,487.83; recall 1.29 P. M.; spontaneous combustion.
Monday	11 143	.....	4.09 1111 Granby st., (in the rear).	Jos. Ellicott.	Stable.	.....	One-story brick.	Loss \$3.00; recall 4.22 P. M.; children playing with matches; extinguishers 3 Engine and 3 Hook and Ladder Cos.
Monday	11 365	.....	4.50 Greenwillow street, near Pennsylvania avenue.	A. Kerr & Bros.	Stable and storage shed.	7, 8, 13.	4. Two-story brick.	Loss \$709.63; recall 6.20 P. M.; supposed heat from new bay.
Tuesday	12 259	10.31	 1307 Valley st.	F. Rollman.	Dwelling.	.....	5. Three-story brick.	Loss \$100.00; recall 10.46 A. M.; children playing with matches.
Tri-day alarm.	12 525	.....	6.30 Uhler's alley, near Charles st.	W. V. Wilson, Jr., & Co.	Furniture factory.	1, 2, 3, 4, 6, 7, 10, 12.	1, 2, 5. Two-story brick 50 by 80 feet.	Loss \$8,942.25; recall 1.15 A. M.; Wednesday, 13th;

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour. A. M.	Hour. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER CO.	STYLE OF BUILDINGS.	REMARKS.
Tuesday 12 316		9.17	711	N. Calvert st.	Dr. G. B. Reynolds.	Dwelling.	.....	.....	Three story brick.	heat from furnace. Loss \$125.00; recall 9.44 P. M.; lighted match dropped on a mattress; extinguishers 6 and 7 Engine and 4 and 5 Hook and Ladder Cos.
Wednes. 13 41		3.06	109	N. Charles st.	Gaddess Bros. Dr. Goldberg.	Marble w'orks. Dental College.	.....	.....	Four-st'y brick, with marble front.	Loss \$365.40; recall 4.00 P. M.; spontaneous combustions of chemicals; extinguishers 3, 4 and 6 Engine and 1 and 2 Hook and Ladder Cos.
Friday 15 131		12 51	9 & 10	Buchanan's Mary'nd Hom- iny Co.	Hominy mill.	1, 2, 3, 4, 5, 1, 2, 3, 6, 7, 8, 9, 5.	.....	.....	Three-story brick.	Loss \$135.52; 20; recall 12.44 A. M., Saturday, 16th; friction of machinery; B. & O. R. R. Co.'s tug
2d alarm.		12 53	wharf.							
3d alarm.		12 55	13, 14, 15, and 16	Patapsco Flour Co.	Flour mill & grain stor- age.				Four-story brick.	

Friday	15 427	....	2.18 603	W. Lexington J. E. Lee. street.	Paint and oil 11, 13. store.	4.	Three-story brick.	Loss \$400.00; recall 3.19 P. M.; sparks from chimney.	"Convoy" in ser- vice.
Sunday	17 347	....	7.50 1041	N. Charles st., Henry James. (in the rear).	Stable.	4, 7.	Two-story brick.	Loss \$680.00; recall 8.55 P. M.; spon- taneous combus- tion.	
Sunday	17 212	....	8.30 11 S.	Front st. A. Silverman.	Dwelling.	.....	Three story brick.	Loss \$98.00; recall 8.39 P. M.; explo- sion of coal oil lamp; extinguish- ers 3 Engine and 1 Hook and Lad- der Co.	
Monday	18 121	12.55	....	123 South st. W. H. Miller.	Restaurant & dwelling.	.....	Four-story brick.	Loss \$125.00; recall 1.32 A. M.; gas jet set fire to wood- work; extinguish- ers 2, 3 and 4 En- gine and 1 Hook and Ladder Cos.	
Monday	18 248	....	1.32 S. W. cor. North & Geo. A. Hax 1.36 $\frac{1}{2}$ Franklin st. 1.41 $\frac{1}{2}$	& Co.	Grain ware- house.	1, 2, 3, 4, 5, 1, 2, 4, 6, 7, 8, 9, 5.	Three-story brick.	Loss \$6,035.57; re- call 4.17 P. M.; spontaneous com- bustion.	
Tuesday	19 174	10.45	....	1929 E. Pratt st. J. Hedding.	Dwelling.	5.	Three-story brick.	Loss \$450.00; recall 12.06 P. M.; de- fective flue; ex- tinguishers 9 and 11 Engine Cos.	

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour, A. M.	Hour, P. M.	LOCALITY.	OCCUPANT.	How OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER CO.	STYLE OF BUILDINGS.	REMARKS.
Tuesday 19	531	....	10.43	S. E. cor. Paca and Warner st.	E. L. Willis.	Cigar store.	3.	2.	One-story brick.	Loss \$684.50; recall 11.20 P. M.; unknown.
Thursd'y 21	314	11.50	....	218 W. Mulberry st.	Roth & Jones.	Wheelwright shop.	1, 2, 7, 8, 13.	2, 4.	Three-story brick.	Loss \$1,022.10; recall 12.5 P. M.; struck by lightning.
Thursd'y 21	42	....	7.45	312 W. Fayette st.	Mrs. E. Kratz.	Bakery and dwelling.	.....	2.	Three-story brick.	Loss \$573.15; recall 8.17 P. M.; unknown; extinguishers 1, 2, 7 and 8 Engine Cos.
Thursd'y 21 2d and 3d alarms.	18 184	....	9.21	Boston street, near Chesapeake st.	J. S. Young & Co.	Bark extract mill.	2, 3, 4, 5, 6, 9, 10.	1, 3, 5.	One-story frame covered with corrugated iron.	Loss \$240,699.95; recall 11.5 A. M.; Saturday, 23d; unknown; tug-boats Convoy and Transfer of the B. & O. R. R. Co. in service.
Friday 22	422	7.11	....	124 E. Baltimore st.	Pat'k Reilly.	Hotel.	.....	.....	Five-story brick.	Loss \$130.50; recall 7.29 A. M.; party smoking in bed; extinguishers 4 and 6 Engine

Friday	22 423	....	2.59	818 W. Baltimore st.	H. Newman.	Variety store & dwelling.	.....	Two-story frame.	and 2 Hook and Ladder Cos. Loss \$10.00; recall 3.25 P. M.; un- guishers 8 and 10 Engine and 2 Hook and Ladder Cos.
Sunday	24 51	10.19	....	111 Light st.	H. G. Vickery & Co.	Smoke house.	.....	Three story brick.	Loss none; recall 10.27 A. M.; po- liceman saw smoke; nothing in service.
Sunday	24 432	....	9.55	N. E. cor. Pratt & J. T. Dumey. Poppleton sts.		Junk store.	10.	Three-story brick.	Loss \$25.00; recall 10.16 P. M.; spon- taneous combus- tion.
Monday	25 8	....	11.52	1635 Cuba st., (in the rear.)	M. McGuire.	Stable and 12. carriage house.	2.	Two-story frame.	Loss \$800.00; recall 1.14 A. M.; Tues- day, 26th; incen- diary; B. & O. R. R. Co. fire brigade in service.
Wednes.	27 257	....	6.43	S. E. cor Hoffman st. and Harford ave.	P. Redington.	Stable.	.....	Two-st'ry brick and frame.	Loss \$3.00; recall 7.40 P. M.; party smoking in stable
Friday	29 516	....	11.45	618 Ostend st.	C. Leffler.	Dwelling.	2, 10.	Three-story brick.	Loss \$50.00; recall 1.03 P. M.; defec- tive flue.
Saturday	30 123	....	9.14	O'Donnell's wharf.	.....	Storage shed.	1, 2, 3, 4, 5, 1, 2, 3,	One-st'ry fr'me.	Loss \$5,142.59; re- call 3.06 A. M.;
2d alarm.			9.21	227 O'Donnell's whf	.....	Storage ware-	6, 7, 8, 9, 5.	Four-story	Sunday, 31st; in-
3d alarm.			9.27			house.	10, 12.	brick.	cendiary.

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.

DATE.	Box.	Hour A. M.	Hour P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
August. Monday	1 237	....	5.59	1706 Madison ave., (in the rear.)	A. G. Davis.	Stable.	7, 8, 13.	4.	Two-story brick.	Loss \$890.94; recall 7.10 P. M.; spon- taneous combus- tion.
Tuesday Gen. alarm.	2 415	12.26 12.44	....	4 & 6 S. Eutaw st.	Richard Sauer M'fg Co.	Show case manufactory.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10.	1, 2, 4.	Four-story brick.	Loss \$25,950.00; re- call 5.39 A. M.; unknown.
Thursd'y Gen. alarm.	4 521	3.39 3.44	....	201 S. Charles st.	E. L. Parker & Co.	Metal importers.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13.	1, 2, 3, 4, 5.	Five-story iron front.	Loss \$261,340.13; re- call 8.15 A. M., Friday, 5th; un- known.
				203 "	E. L. Parker & Co.	Metal importers.			Five-story iron front.	
				205 "	Fitzgerald, Wedge & Co.	Wholesale grocers.			Five-story iron front.	
				207 "	Sattler & Co.	Wholesale liq- uor dealers.			Five-story iron front.	
				13 E. Pratt	E. B. Owens & Co.	Commission store.			Three-story brick.	Chief Engineer Henrick serious- ly wounded by falling glass, in front of 201 South Charles st.
				15 "	T. N. Kurtz & Co.	Book store.			Three-story brick.	
				17 "	J. D. Mason & Co.	Cracker manufact'y.			Four story brick.	
				19 "	J. D. Mason & Co.	Cracker manufact'y.			Four story brick.	
				21 "	Henderson, Laws & Co.	Cracker manufact'y.			Three-story brick.	Capt. Wm Schulte, of No. 12 Engine

Thursd'y	4 39'	1.45	1711 N. Calhoun st.	Mr. Hopkins.	Cracker manufactory.	Three-story brick.	Co., killed in No. 21 E. Pratt st.
					Stove store.	Four-story brick.	
					Farming implements.	Four-story brick.	
					Dwelling.	Three-story brick.	Loss none; recall 2.15 P. M.; pan of grease upsetting on stove; nothing in service.
Thursd'y	4 151'	3.05	130 S. Caroline st.	R. Montgomery	Stable.	Two-story brick.	Loss \$5.00; recall 3.15 P. M.; party smoking.
Friday	5 413'	6.21	105 W. Fayette st.	J. J. Convery.	Printing office.	Three-story brick.	Loss \$300.00; recall 6.47 P. M.; un- known; extin- guishers 4 Engine and 2 Hook and Ladder Cos.
Monday	8 426'	1.02	1035 W. Baltimore street.	Geo. Johnson.	Grocery store & dwelling.	Three-story brick.	Loss \$50.00; recall 1 25 P. M.; un- known; extin- guisher 2 Hook and Ladder Co.
Wednes.	10 171'	12.07	603 S. Washington street.	E. Goforth.	Dwelling.	Two-story brick.	Loss \$15.00; recall 12 24 P. M.; un- known.
Wednes.	17 13'	2.22	729, 731 and 733 Pratt st.	E. A. Schultz & Co.	Solder works.	Four-story brick.	Loss \$5.00; recall 2 32 P. M.; explo- sion of can of tur- pentine; extin- guisher 1 Hook and Ladder Co.

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	BOX.	HOUR. A. M.	HOUR. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Sunday 21	235	2.24	....	634 N. Chester st.	P. Michaels.	Grocery store & dwelling.	9.	5.	Two-story brick.	Loss \$390.50; recall 3.24 A. M.; unknown.
Thursd'y 25	368	....	1.35	86 Sarah Ann st.	J. Jackson.	Dwelling.	.....	.....	Three-story brick.	Loss none; recall 1.52 P. M.; soot in chimney; nothing in service.
Monday 29	162	....	5.36	1714 Thames st.	John Hubert.	Coppersmith shop.	.....	.....	Two-story brick.	Loss \$10.00; recall 5.50 P. M.; rosin taking fire from forge; nothing in service.
Wednes. 21	3	....	5.27	200 N. Holliday st.	Wise Bros.	Overall manufactory.	.....	.....	Five-story brick.	Loss none; recall 5.40 P. M.; supposed from friction of belting; extinguisher 4 Engine Co.
September. Thursd'y 1 2d alarm.	61	1.10 1.24	....	Pier 19, (foot of Lee street.)	Weems S. B. Co. Capt. Davis.	Steamboat "Essex."	1, 2, 3, 4, 6, 1, 2, 7, 10, 12.	.....	.....	Loss \$14,482.00; recall 4.12 A. M.; supposed from boiler.
Friday 21	54	....	12.53	Foot of Welles st.	Tyson & Co.	Scow, loaded with lime.	.....	.....	.....	Loss \$20.00; recall 1.20 P. M.; slackening of lime; extinguisher

Saturday 3 248	....	4.45	Holliday st., near Bath st.	M. Crichton.	Whiskey dis- tillery.	4.	1.	Three-story brick.	tinguisher 3 Hook and Ladder. Loss \$20.00; recall 5.50 P. M.; sparks from chimney. Loss \$5.00; recall 8.40 P. M.; explosion of coal oil lamp; nothing in service.
Tuesday 6 234	....	8.25	1826 Orleans st.	Kate Rector.	Dwelling.	.....	.....	Three-story brick.	Loss none; recall 11.34 P. M.; unknown. Loss \$200.00; recall 1.46 A. M.; unknown. Loss \$300.00; recall 2.39 P. M.; unknown. Loss \$251.50; recall 2.29 P. M.; sparks from smokestack. Loss \$2,196.37; recall 1.12 P. M.; sparks from chimney. Loss \$20.00; recall 1.49 P. M.; unknown; extinguisher 4 Hook and Ladder Co. Loss \$108.37; recall 8.13 P. M.; explosion of coal oil
Tuesday 6	8	10.55	Locust Point.	B. & O. R. R. Co.	Storage lot.	12.	.....	Old lumber pile.	
Wednes. 7 431	1.194	....	Cor. Ryan st. and Dawson alley.	Peter Stram.	Grocery store & dwelling.	10.	.....	Two-story brick.	
Wednes. 7 25	....	1.30	1011 Greenmount avenue.	L. Sweeny.	Stable.	6, 9.	5.	Two-story brick.	
Wednes. 7 153	....	1.43	523 S. Dallas st.	Wm. Scott.	Dwelling.	3.	3.	Two-story brick.	
Thursday 8 321	11.51	....	520 & 522 Franklin street.	J. S. Hopkins.	Wooden ware manufact'y.	1, 7, 8.	4.	Two-story brick and attic.	
Friday 9 321	....	1.38	502 Pennsylvania avenue.	J. Gullison.	Feed store.	.....	.....	Three-story brick.	
Saturday 10 453	....	7.284	907 Whatcoat st.	John Jones.	Dwelling.	.....	.....	Two-story brick.	

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour, A. M.	Hour, P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Sunday 11 521	....	3.30	11.11	17 W. Camden st.	C. M. Palmer.	Bakery.	.....	.....	Two-story brick.	lamp; extinguisher 4 Hook and Ladder Co. Loss none; recall 3.34 P. M.; two boys built a fire under the oven; nothing in service.
Sunday 11 64	....	11.11	11.11	1605 Light st.	B. DeFalso.	Dwelling.	.....	.....	Three-story brick.	Loss \$50.00; recall 11.25 P. M.; explosion of gasoline stove; extinguisher 12 Engine Co. Loss \$6,960.75; recall 5.30 A. M.; supposed to have taken fire from gas jet.
Monday 12 413	3.56	....	....	25 W. Lexington st.	A. G. Ham- burger. A. M. Hill.	Notion store. Art school.	1, 7.	1, 2.	Four-story brick.	Loss \$192.00; recall 4.40 P. M.; children playing with matches; extinguishers 13 En-
Monday 12 452	....	4.08	....	218 N. Gilmor st.	J. Pearson.	Dwelling.	.....	.....	Three-story brick.	

Wednes. 14	145	10.56	....	1216 E. Fayette st.	W. B. Clark.	Dwelling.	 Three-story brick.	gine and 4 Hook and Ladder Cos. Loss \$30.00; recall 11.12 A. M.; leak in gas pipe in cellar; extinguishers 3 Engine and 3 Hook and Ladder Cos.
Sunday 18	14	....	10.25	Smoke seen coming from a chimney			.....	Loss none; recall 10.43 P. M.; false alarm.
Monday 19	153	11.49	....	527 S. Dallas st.	Mary Worth.	Dwelling.	3, 5. Three-story brick.	Loss \$436.50; recall 12.35 P. M.; sparks from a smoke stack.
Tuesday 20	321	....	2.51	N. W. cor. Paca & Franklin sts.	Jas. Miller.	Dwelling.	4. Three-story brick.	Loss \$350.00; recall 3.45 P. M.; unknown.
Tuesday 20	253	....	11.11	1500 Harford ave.	Wm. Simpson & Bro.	Feed store.	5. Three-story brick.	Loss \$105.28; recall 12.34 A. M.; Wednesday, 21st; supposed incendiary.
Wednes. 21	31	3.55	....	306 Courtland st.	Scott & Mighton.	Laundry.	1, 4. One story brick.	Loss \$3,750.29; recall 5.59 A. M.; unknown.
Wednes. 21	249	....	5.51	643 Constitution st.	J. Flanigan.	Dwelling.	1. Three-story brick.	Loss \$319.33; recall 6.32 P. M.; overturning of a gasoline stove.
Wednes. 21	542	....	7.49	508 W. West st.	C. H. Chew.	Dwelling.	 Two-story brick.	Loss \$25.00; recall 8.05 P. M.; unknown; extinguishers

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	BOX.	Hour A. M.	Hour P. M.	LOCALITY.	OCCUPANT.	How OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Thursd'y 22 2d alarm. 3d alarm.	513	3.21 3.29 3.31	....	111 Hopkins Place; " " " "	M. S. Levy & Sons. Dobler & Mudge. H. S. King	Straw goods manufact'y. Paper stock manufact'y. Wholesale	1, 2, 3, 4. 5, 6, 7, 8, 9, 4, 5. 10, 12. •	1, 2. 4, 5.	Four-story brick. Four-story brick. Four-story brick.	guisher 2 Hook and Ladder Co. Loss \$44,022.41; re- call 1.30 P. M.; fire originated in No. 113; supposed spontaneous com- bustion.
Saturday 24 426	426	....	12.25	1033 W. Baltimore street.	G. W. Gardner & Co.	Hardware. Dwelling and stove store.	.....	.....	Three-story brick.	Loss \$15.30; recall 12.45 P. M.; sparks from chimney; extinguisher 2 Hook and Lad- der Co.
Monday 26 413	413	11.32	....	36 W. Lexington st.	F. H. Bittle.	Notion store.	.....	.....	Three-story brick.	Loss \$12.00; recall 11.50 P. M.; sparks from chimney; extinguisher 2 Hook and Lad- der Co.
Thursd'y 29 122	122	....	8.35	15 S. Holliday st.	D. W. Dorris.	Shoe store.	.....	.....	Three-story brick.	Loss \$322.96; recall 8.57 P. M.; un- known; extin- guishers 4 Engine

October. Tuesday	4 174	6.40	....	1929 E. Baltimore street.	J. Hedding.	Dwelling.	.....	Three-story brick.	and 1 Hook and Ladder Cos. Loss \$124.00; recall 6.55 A. M.; un- known; extin- guisher 3 Hook and Ladder Co. Loss \$30.00; recall 11.22 A. M.; un- known; extin- guisher 10 Engine Co. Loss \$4,798.75; re- call 6.26 P. M.; friction of ma- chinery. Loss \$50.00; recall 12.05 P. M.; sparks from smokestack; extinguishers 1 and 2 Hook and Ladder Cos. Loss \$20.00; recall 2.11 P. M.; sparks from smokestack; nothing in ser- vice, Loss \$50.00; recall 10.25 A. M.; sparks from smokestack; extinguishers 12 Engine and 2 Hook and Ladder Cos.
Thursd'y	6 535	11.04	....	1336 Cleaveland st.	B. Williams.	Dwelling.	.....	Two-story brick.	
Thursd'y	6 56	....	3.51	S. W. cor. Cross & Race sts.	C. W. Booze & Co.	Oakum factory.	2, 10, 12.	Two-story brick.	
Friday	7 513	11.35	....	112 W. Lombard st.	H. Seidenberg.	Dwelling.	.....	Three-story brick.	
Friday	7 516	....	1.55½	Warner street, near Ostend st.	Baker Bros.	Glass works.	.....	One-story brick.	
Saturday	8 712	9.55	....	Foot of Jackson st.	Peirson & Co.	Oyster pack'g establishm't.	.....	One-story brick.	

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour A. M.	Hour P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER Cos.	STYLE OF BUILDINGS.	REMARKS.
Wednes. 12 42 3	9.54	....	....	739 W. Fayette st.	M. Strauss.	Dwelling.	.....	.....	Three-story brick.	Loss \$200.00; recall 10.37 A. M.; sparks from chimney; extinguisher 2 Hook and Ladder Co.
Wednes. 12 26 3	....	....	....	2.12 1703 N. Bond st.	R. Johns.	Dwelling.	.....	.....	Two-story brick.	Loss \$10.00; recall 2.34 P. M.; defec- tive flue; extin- guisher 5 Hook and Ladder Co.
Friday 14 36 5	4.15	....	....	927 Pennsylvania avenue.	A. Nanheim.	Dwelling and china store.	.....	.....	Three story brick.	Loss \$10.00; recall 4.25 A. M.; un- known; extin- tinguisher 4 Hook and Ladder Co.
Friday 14 33 3	5.10	....	....	606 W. Townsend street.	M. Fahey.	Stable.	7, 13.	4.	Two-story brick.	Loss \$33.74; recall 7.00 A. M.; un- known.
Friday 14 16 2	....	....	....	8.03 917 S. Ann st.	B. Woolford.	Saw mill.	.....	.....	One-story frame.	Loss \$50.00; recall 8.20 P. M.; over- heated boiler; ex- tinguishers 5 En- gine and 3 Hook and Ladder Cos.

Saturday 15 624	10 20	....	1049 S. Howard st.	M. Hooper.	Dwelling.	.....	Three-story brick.	Loss \$100.00; recall 11.10 A. M.; defective flue; extinguishers 2 Engine and 2 Hook and Ladder Cos.
Saturday 15 513	....	8.27	37 S. Liberty st.	T. A. Sutherland & Co.	Paper box factory.	1, 2.	Three-story brick.	Loss \$673.25; recall 9.44 P. M.; overheated stove.
Saturday 15 313	....	11.35	14 E. Hamilton st.	G. H. Williams.	Stable.	1, 7.	Two-story brick.	Loss \$929.52; recall 12.51 A. M., Sunday, 16th; unknown.
Sunday 16 71	....	1.35	Foot of Burrough street.	D. M. Reese.	Charcoal kiln.	12.	One-story brick.	Loss \$10.00; recall 2.30 P. M.; overheated kiln.
Monday 17 213	....	11.58	808 Low st.	Heywood Bros. & Co.	Chair factory.	.....	Five-story brick.	Loss \$25.00; recall 12.15 A. M., Tuesday, 18th, supposed incendiary; extinguisher 6 Engine Co.
Saturday 22 48	....	9.34	N. W. cor. Ramsey and Forrest sts.	Conrad Gerbor.	Saloon and dwelling.	.....	Two-story brick.	Loss \$65.00; recall 9.54 P. M.; explosion of gas; extinguisher 2 Hook and Ladder Co.
Sunday 23 535	3.29	....	Washington road, near the city limits.	McCreary & Co.	Lamp-black factory.	10.	Four one-story brick and frame.	Loss \$5,700.00; recall 8.12 A. M.; sparks from smokestack.
Wednes. 26 212	....	6.40	Foot of Second st.	.....	.....	.....	.....	Loss none, recall 6.51 P. M.; boys set fire to a bar-

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	HOUR. A. M.	HOUR. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Thursd'y 27	171	1.59	....	2179 Essex st.	Flaherty & Co.	Wood mill.	.....	.....	One-story frame.	rell of rosin; ex- tinguisher 1 Hook and Ladder Co. Loss \$15.00; recall 2.20 A. M.; heat from boiler; ex- tinguisher 3 Hook and Ladder Co.
Sunday 30	71	10.38	....	Foot of Lawrence street.	Frank Collins.	Lime kiln.	12.	2.	Two-story brick.	Loss \$10.00; recall 12.28 P. M.; slack- ing of lime.
Monday 31	525	9.02	....	115 Hanover st.	S. A. Pitt.	Furniture store.	2.	2.	Four-story brick.	Loss \$110.00; recall 9.40 A. M.; un- known.
November Tuesday 1	18	1.45	....	Patuxent & Boston streets.	Brooks & Bro.	Charcoal kiln.	11.	3.	One story brick.	Loss \$10.00; recall 12.05 P. M.; over- heated furnace.
Tuesday 1	21	2.04	....	208 N. Gay st.	.....	Unoccupied.	.....	.....	Three-story brick.	Loss \$25.00; recall 2.31 A. M.; over- heated stove, used by workmen; ex- tinguisher 6 En- gine Co.

Tuesday	1425	3.47	....	927 W. Baltimore street.	Mrs. B. Miller.	Millin'ry store 1. & dwelling.	2.	Three-story brick.	Loss 636.00; recall 4.30 A. M.; overheated stove.
Tuesday	1212	....	8.09	6 S. Front st.	W. Hoffman.	Barber shop & dwelling.	.....	Four-story brick.	Loss \$161.50; recall 8.37 P. M.; explosion of coal oil lamp; extinguishers 3 Engine and 1 Hook and Ladder Cos.
Thursd'y	3162	2.22	....	N. W. cor. Wolfe & Thames sts.	J. F. Possano.	Lumber yard and drying shed.	3, 5, 9, 11, 13.	One-story frame.	Loss \$1,053.90; recall 4.40 A. M.; supposed incen-diary.
Thursd'y	3171	7.45	....	806 S. Washington street.	Mrs. A. Miller.	Dwelling.	 3.	Three-story brick.	Loss \$25.00; recall 8.07 A. M.; explosion of coal oil stove.
Saturday	5415	....	11.19	416 W. Baltimore street.	T. S. Carroll. C. J. Carroll.	Liquor store. Cigarfactory.	1, 7. 1, 2.	Four-story brick.	Loss \$2,082.00; recall 12.25 A. M., Sunday 6th; unknown.
Sunday	6432	1.16 1.30	....	S. E. cor. Pratt and Poppleton sts.	J. T. Dumey. F. Winter.	Junk store. Wheelwright shop.	2, 8, 10, 13, 2, 4.	One-and-one-half-story brick.	Loss \$1,718.45; recall 4.35 A. M.; unknown.
Sunday	64	2.40	....	204 E. Baltimore st.	Jacob Weber.	Cigar store.	4. 5.	Three-story brick.	Loss \$2,059.70; recall 3.30 A. M.; overheated stove.
Thursd'y	10271	9.45	....	939 N. Ann st.	H. C. Bowen.	Dwelling.	.....	Three-story brick.	Loss \$282.50; recall 10.26 A. M.; unknown; extinguishers 9 Engine and 5 Hook and Ladder Cos.

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.

DATE.	Box.	Hour. A. M.	Hour. P. M.	LOCALITY.	OCCUPANT.	How OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER COS.	STYLE OF BUILDINGS.	REMARKS.
Thursd'y 10 473		7.32	1425	Franklin st.	Mrs. J. Brenner	Dwelling.	8.	4.	Three-story brick.	Loss \$1,113.92; recall 9.30 P. M.; unknown.
Thursd'y 17 314		11.56	505	N. Howard st.	J. C. Howard. R. J. McLaugh- lin.	Stove store. Shoe factory.	7.	4.	Three-story brick.	Loss \$574.00; recall 12.40 A. M., Friday, 18th; overheated stove.
Friday 18 231	7.55	....	514	Pennsylvania avenue.	Jacob Kinty.	Feed store.	.....	.....	Three-story brick.	Loss \$30.00; recall 8.17 A. M.; sparks from chimney; extinguisher 4 Hook and Ladder Co.
Monday 21 541		1.39	806	S. Eutaw st.	Henry Young.	Stable.	12.	2.	One-story frame.	Loss \$260.00; recall 2.46 P. M.; children playing with matches.
Tuesday 22 151	...	8.38	1427	E. Lombard st.	W. Weirsage.	Dwelling.	.....	.....	Three-story brick.	Loss \$70.00; recall 8.52 P. M.; explosion of coal oil lamp; extinguisher 3 Hook and Ladder Co.

Wednes. 23 526	.....	7.42½	205 W. Camden st.	Woolford & Shillberg.	Straw goods manufact'y.	1, 2, 4, 10, 12.	1, 2.	Four-st'ry (iron front) brick.	Loss \$9,596.27; recall 10.25 P. M.; overheated boiler
Friday 25 346	12.46	....	702 N. Howard st.	H. R. Davis.	Boarding house.	.....	.....	Three-story brick.	Loss \$334.75; recall 1.33 A. M.; unknown; extinguishers 1 and 7 Engine and 4 Hook and Ladder Cos.
Friday 25 451	....	4.46	622 N. Carrollton avenue.	J. W. Rice.	Dwelling.	.....	.....	Three-story brick.	Loss \$25.00; recall 5.21 P. M.; heat from furnace; extinguishers 8, 10 and 13 Engine and 4 Hook and Ladder Cos.
Friday 25 42	....	5.36	German street and Cider alley.	.....	.....	1.	2.	Open lot.	Loss none; recall 5.55 P. M.; shavings set on fire by unknown person.
Sunday 27 313	....	5.45	18 W. Franklin st.	J. R. Ridgely.	Dwelling.	.....	.....	Three-story brick.	Loss none; recall 5.54 P. M.; soot in chimney; nothing in service.
December. Thursd'y 1 424	1.45 2.04½	....	760 and 762 W. Saratoga st.	Mitchell & Pacholder.	Cigarette factory.	1, 2, 7, 8, 10, 13.	2, 4.	Three-story brick.	Loss \$6,139.22; recall 5.00 A. M.; overheated stove.
Thursd'y 1 613	11.49	....	1216 Warner st.	M. Blume.	Dwelling.	.....	.....	Three-story brick.	Loss none; recall 12.10 P. M.; overheating of a pot of rosin.

RECORD OF FIRES AND ALARMS, FOR THE YEAR ENDING DECEMBER 31, 1887.—Continued.

DATE.	Box.	Hour. A. M.	Hour. P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	HOOK & LADDER Cos.	STYLE OF BUILDINGS.	REMARKS.
Monday 2d alarm.	5 134	....	7.23 7.35	343 McDerry wh'f.	Wm. & F. Turnt.	Vinegar works.	3, 4, 5, 6, 11.	1, 3.	Four-story brick.	Loss \$2,000.00; re- call 10.08 P. M.; sparks from fur- nace.
Monday	5 232	....	7.36	106 & 108 N. Caro- line st.	S. Silverberg & Co.	Cigar fact'y.	.....	5.	Three-story brick.	Loss \$1,000.00; re- call 8.12 P. M.; overheated stove.
Tuesday 2d alarm.	6 134	....	7.21 7.27	325 McDerry wh'f.	Jas. E. Dubel.	Junk & cotton warehouse.	1, 2, 3, 4, 5, 6, 9, 11.	1, 2, 3.	Three-story brick.	Loss \$1,834.50; re- call 10.29 P. M.; unknown.
Friday	9 314	....	3.50	23 W. Franklin st.	R. McSherry.	Dwelling.	.....	.....	Four-story brick.	Loss none; recall 4.10 P. M.; soot in chimney.
Friday	9 232	....	8.02	1508 Fairmount avenue.	Wm. Reed.	Dwelling.	.....	.....	Two-story brick.	Loss \$100.00; recall 8.34 P. M.; coal oil lamp explo- sion; extinguish- ers 5, 6 and 9 En- gine and 1 and 3 Hook and Lad- der Cos.
Sunday	11 247	3.15	....	618 N. Central ave.	Wm. Thomas.	Dwelling and restaurant.	.....	.....	Three-story brick.	Loss \$82.00; recall 3.39 A. M.; over- heated stove; ex-

Monday	12 624	10.55	....	1045 S. Sharp st.	Wm. Kuethe.	Tenement house.	.....	Three-story brick.	tinguisher 5 Hook and Ladder Co. Loss \$200.00; recall 11.15 A. M.; overheated stove; extinguishers 2 and 12 Engine and 2 Hook and Ladder Cos.
Tuesday	13 531	9.14	....	765 Columbia ave.	H. T. Lester.	Dwelling.	.....	Three-story brick.	Loss \$150.00; recall 9.34 A. M.; children playing with matches; extinguishers 2 and 10 Engine and 2 Hook and Ladder Cos.
Tuesday	13 463	....	4.34	There was no cause for this alarm.		.....	.....	.....	Loss none; recall 4.43 P. M.
Wednes.	14 428	12.17	....	944 W. Fayette st.	W. E. Stubbs.	Carpenter shop.	.....	Three-story brick.	Loss \$20.00; recall 12.35 A. M.; unknown.
Thursd'y	15 383	10.55	....	1812 Druid Hill ave.	R. G. Bagwell.	Dwelling.	.....	Three-story brick.	Loss \$15.00; recall 11.13 A. M.; defective flue; extinguishers 7 Engine and 4 Hook and Ladder Cos.
Saturday	17 531		8.54	508 S. Fremont st.	L. Stern.	Dry goods store and dwelling.		Three-story brick.	Loss \$30.00; recall 9.07 P. M.; unknown; extinguisher 10 Engine Co.

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NOV 76



N. MANCHESTER,
INDIANA

